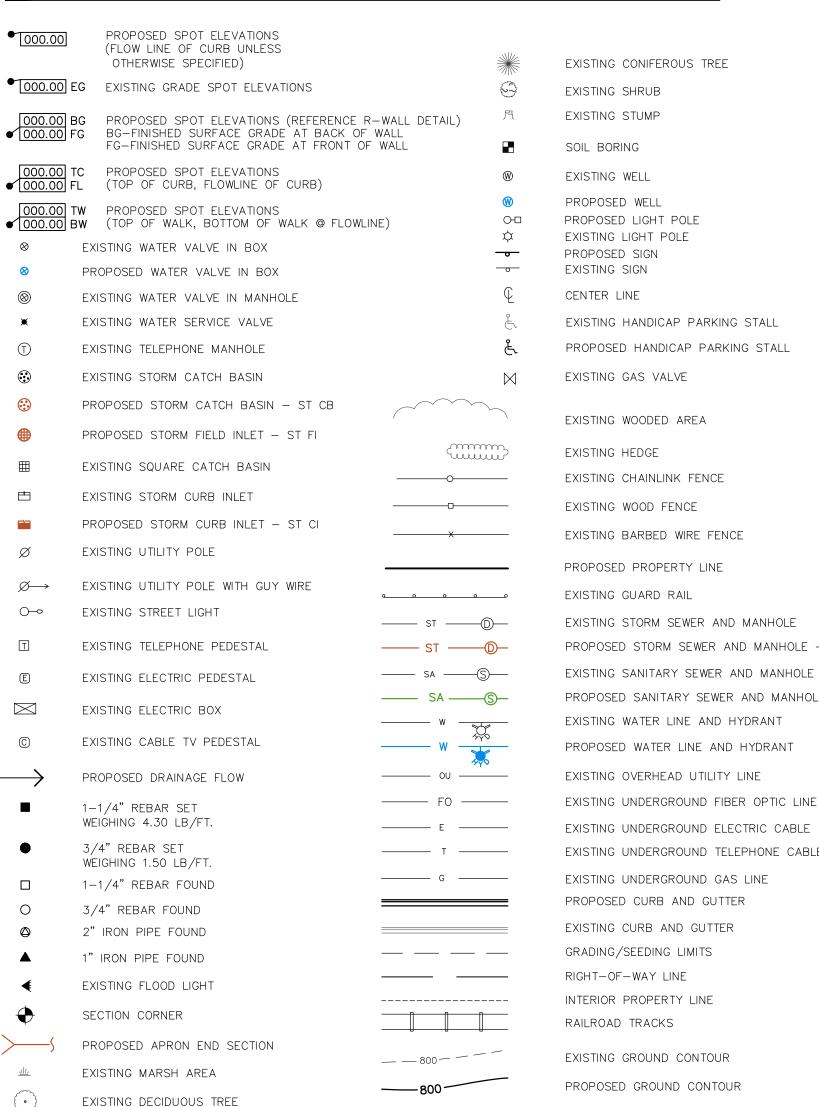
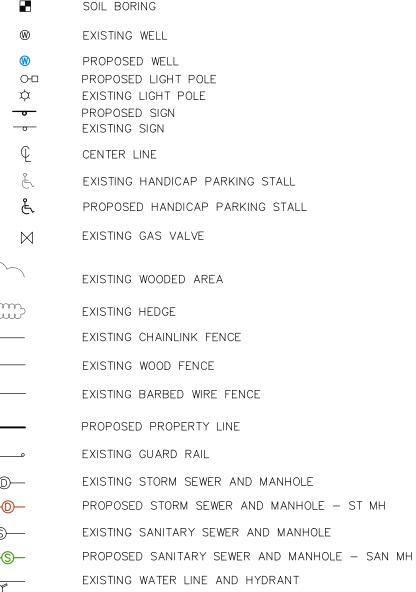
SHEBOYGAN, LEGEND





EXISTING UNDERGROUND FIBER OPTIC LINE

EXISTING CURB AND GUTTER

GRADING/SEEDING LIMITS

INTERIOR PROPERTY LINE

PROPOSED GROUND CONTOUR

RIGHT-OF-WAY LINE

RAILROAD TRACKS

EXISTING CONIFEROUS TREE

EXISTING SHRUE



Table A: Allowable Pipe Material Schedule								
Utility	Material	Pipe Code	Fitting Code	Joint Code				
Town Water Lateral (Glander)	C901/906 PE	AWWA C901/C906	ASTM D2609, ASTM D2683, ASTM D3261	Heat fusion: ASTM D2657				
Van Horn Combined Domestic/Fire Service	C900 PVC	AWWA C900, ASTM D1785, ASTM D2241	AWWA C110, AWWA C153, ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866	Joint: ASTM D3139 Integral Bell & Spigot Elastomeric Seal: ASTM F477				
Sanitary Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034, ASTM F891	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Gasket: ASTM F477				
Storm Sewer	HDPE	ASTM F2648, ASTM F2306, AASHTO M252, TYPE S (4 IN - 10 IN), AASHTO M294, TYPE S (12 IN - 60 IN)	ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294	Joint: ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294 Elastomeric Seal: ASTM F477				
Storm Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034, ASTM F891	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Seal: ASTM F477				
Pavement Underdrain Single Wall Perforated HDPE-Socked		ASTM F667	ASTM F667	ASTM D1056 Grade 2A2 Gasketed				

CIVIL SHEET INDEX

WITH TRUNK DIAMETER

A SUPRA KEY BOX IS REQUIRED ON

COORDINATE FINAL LOCATION AND

REQUIREMENTS WITH LOCAL FIRE

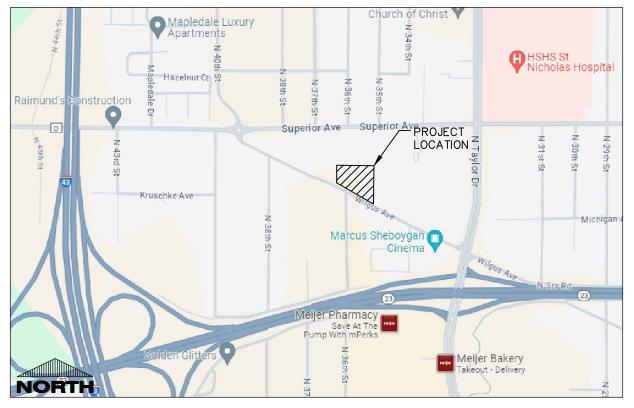
DEPARTMENT/BUILDING INSPECTOR.

THE BUILDING PER LOCAL STANDARDS.

PROPOSED INLET PROTECTION

EROSION MATTING

SHEET	SHEET TITLE					
C0.1	CIVIL COVER AND SPECIFICATION SHEET					
C1.0	EXISTING SITE AND DEMOLITION PLAN					
C1.1A	SITE PLAN PHASE 1					
C1.1B	SITE PLAN PHASE 2					
C1.2A	GRADING AND EROSION CONTROL PLAN PHASE 1					
C1.2B	GRADING AND EROSION CONTROL PLAN PHASE 2					
C1.3A	UTILITY PLAN					
C1.3B	SANITARY MAIN EXTENSION PLAN					
C1.4	LANDSCAPE AND RESTORATION PLAN					
C2.0	DETAILS					
C2.1	DETAILS					
C3.1	SITE PHOTOMETRIC PLAN & DETAILS					



PROJECT LOCATION MAP

31 10 00 SITE CLEARING (DEMOLITION)

A. CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION ESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION. B. CONTRACTOR TO FIFLD TELEVISE ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-LISED AND/OR CONNECTED TO ON SITE AT TIME OF DEMOLITION. THE TELEVISING SHALL BE COMPLETED TO ENSURE THE EXISTING LATERAL(S) ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISING OF THESE LATERAL(S) SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISIN C. DEMOLITION PLAN IS AN OVERVIEW OF DEMOLITION TO TAKE PLACE ON SITE. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPLACE,

D. CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED AT CONTRACTORS EXPENSE E. ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT. F. PULVERIZE EXISTING ASPHALT AND REUSE FOR NEW ASPHALT BASES REQUIRED.

A. CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION

B. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.

C. ALL ORGANIC TOPSOIL INSIDE THE BUILDING AREA, UNDER PAVED AREAS, AND AT SITE FILL AREAS SHALL BE REMOVED. PROOF ROLL SUBGRADES BEFORE PLACING FILL WITH HEAVY PNEUMATIC-TIRED QUIPMENT, SUCH AS A FULLY-LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR HE PROJECT. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY LOCAL ZONING REQUIREMENTS.

D. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT IS TOO WET TO COMPACT TO SPECIFIED DRY

E. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION FOLIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR F. COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698. STANDARD PROCTOR TEST, FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT . UNDER FOUNDATIONS - SUBGRADE, AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 98 PERCENT.

2. UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE, WITH 5% TO 12% FINES, PER HICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCEN 3. UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE- PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE. WITH NO MORE THAN 5% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT

4. UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
5. UNDER WALKWAYS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT. UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 85 PERCENT G. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ASSING DENSITY TESTING AND PROOF-ROLLING TO ENGINEER UPON COMPLETION. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USED TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE

ENGAGED FOR THE FIELD QUALITY CONTROL TESTS. H. ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSL COMPLETED WORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB, ONE TEST FOR EACH SPREAD FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL STRIP FOOTING. WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE

SOIL TO DEPTH REQUIRED: RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED. J. THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADED TO WITHIN 0.10' OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

31 30 00 EROSION CONTROL/STORMWATER MANAGEMENT

2. THE NAME OF THE INDIVIDUAL WHO PERFORMED THE INSPECTION.

A THE DESIGN ENGINEER SHALL PREPARE A SITE SPECIFIC EROSION CONTROL AND A STORMWATER MANAGEMENT PLAN PURSUANT TO NR 21646 AND NR 21647. THE DESIGN ENGINEER SHALL ALSO FILE A CONSTRUCTION NOTICE OF INTENT WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES PURSUANT TO NR 216.43 OR TO AN AUTHORIZED LOCAL PROGRAM PURSUANT TO NR 216.415 TO OBTAIN COVERAGE UNDER THE GENERAL WPDFS STORM WATER PERMIT B. THE CONTRACTOR SHALL KEEP THE NOTICE OF INTENT PERMIT, APPROVED EROSION CONTROL AND STORMWATER MANAGEMENT PLANS, AND PLAN AMENDMENTS ON THE CONSTRUCTION SITE AT C. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL EROSION CONTROL PERMITS.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE MONITORING, MAINTENANCE, AND REPORTING REQUIREMENTS OF NR 216.48. INSPECTIONS OF IMPLEMENTED EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST AT A MINIMUM BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5" OR MORE. A PRECIPITATION EVENT MAY BE CONSIDERED TO BE THE TOTAL AMOUNT OF PRECIPITATION RECORDED IN ANY CONTINUOUS 24-HOUR PERIOD. THE CONTRACTOR SHALL REPAIR OR REPLACE EROSION AND SEDIMENT CONTROL AS

NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR AFTER A DEPARTMENT NOTIFICATION WHERE REPAIR OR REPLACEMENT IS REQUESTED E. THE CONTRACTOR SHALL MAINTAIN, AT THE CONSTRUCTION SITE OR AVAILABLE VIA AN INTERNET WEBSITE, WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS CONDUCTED. WISCONSIN DNR CONSTRUCTION SITE INSPECTION REPORT FORM 3400-187 SHALL BE USED. WEEKLY INSPECTION REPORTS SHALL INCLUDE ALL OF THE FOLLOWING THE DATE, TIME, AND LOCATION OF THE CONSTRUCTION SITE INSPECTION.

. AN ASSESSMENT OF THE CONDITION OF THE EROSION AND SEDIMENT CONTROLS. 4. A DESCRIPTION OF ANY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED

A DESCRIPTION OF THE PRESENT PHASE OF LAND DISTURBING CONSTRUCTION ACTIVITY AT THE CONSTRUCTION SITE. F. EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151, THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES RUNOFF MANAGEMENT PERFORMANCE STANDARDS. TECHNICAL STANDARDS PUBLISHED BY THE WISCONSIN DNR SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHODS AND TYPES OF EROSION CONTROL WILL BE DEPENDENT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION, AND INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF XISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED. 1. SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WIL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1056 (CURRENT EDITION). 2. DITCH CHECKS SHALL BE PROVIDED TO REDUCE THE VELOCITY OF WATER FLOWING IN DITCH BOTTOMS. PLACE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. FOLLOW PROCEDURES

FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1062 (CURRENT EDITION). STONE TRACKING PADS AND TRACKOUT CONTROL PRACTICES SHALL BE PLACED AT ALL CONSTRUCTION SITE ENTRANCES AND SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE CONSTRUCTION SITE. SEE THE EROSION CONTROL PLAN FOR LOCATIONS. THE AGGREGATE USED FOR THE STONE TRACKING PAD SHALL BE 3/8" TO 3 INCH CLEAR OR WASHED STONE AND SHALL BI PLACED IN A LAYER AT LEAST 12 INCHES THICK. THE STONE SHALL BE UNDERLAIN WITH A WISDOT TYPE R GEOTEXTILE FABRIC AS NEEDED. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE FGRESS POINT (12' MIN WIDTH) AND SHALL RE A MINIMUM OF 50 FEFT LONG. SURFACE WATER MUST RE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. OTHER TRACKOUT CONTRI PRACTICES INCLUDING STABILIZED WORK SURFACES, MANUFACTURED TRACKOUT CONTROL DEVICES, TIRE WASHING, AND STREET/PAVEMENT CLEANING SHALL BE IMPLEMENTED AS NECESSARY TO MITIGATE THE TRACKOUT OF SEDIMENT OFFSITE. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1057 (CURRENT EDITIOI 4. STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. TYPE B OR C PROTECTION SHOULD BE PROVIDED AND SHALL B

5. DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRAYING, SURFACE ROUGHENING, APPLYING POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES, AND BARRIERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION) . THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR

RANSPORT BY RUNOFF INTO WATERS OF THE STATE. 2. CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THIS DESIGNATE AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF

:. TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FO A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THIS TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERENNIAL VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT SHALL MEET THE SPECIFICATIONS FOUND IN THE LANDSCAPING AND SITE STABILIZATION SECTION OF THIS CONSTRUCTION DOCUMENT. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE. 4. IF SITE DEWATERING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES, ALL SEDIMENT LADEN WATER GENERATED DURING THE DEWATERING PROCESS SHALL BE TREATED TO REMOVE

SEDIMENT PRIOR TO DISCHARGING OFF-SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN TECHNICAL STANDARD 1061 5. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REOUIREMENTS SHALL BE FOLLOWED PER WI DNR TECHNICAL STANDARD 1068 (CURRENT EDITION), FLUSHING SHALL NOT BE ALLOWED.

G. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREA(S) SERVED HAVE ESTABLISHED VEGETATIVE COVER. I. ONCE THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED AND TEMPORARY EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN REMOVED, THE CONTRACTOR SHALL FILE A CONSTRUCTION NOTICE OF TERMINATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES IN ACCORDANCE WITH NR 216.55.

I. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL GIVE THE OWNER COPIES OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS, AMENDMENTS TO PLANS SUPPORTING PLAN DATA, AND CONSTRUCTION SITE EROSION CONTROL INSPECTION REPORTS. THE OWNER SHALL RETAIN THESE FOR A PERIOD OF 3 YEARS FROM THE DATE OF TERMINATING

J. ALL POST CONSTRUCTION STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES SHALL BE CONSTRUCTED BEFORE THE SITE HAS UNDERGONE FINAL STABILIZATION

DIVISION 32 EXTERIOR IMPROVEMENT

A. CONTRACTOR TO PROVIDE COMPACTED AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT WHERE INDICATED ON THE PLANS. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. PROVIDE HOT MIX ASPHALT MIXTURE TYPES PER SECTION 460 OF THE WISCONSIN STAND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. CONTRACTOR SHALL OBTAIN AND REVIEW SOILS REPORT FOR RECOMMENDATIONS FOR GEO-GRID / GEOTEXTILE BELOW CRUSHED AGGREGATE (IF APPLICABLE). CONTRACTOR TO PROVIDE AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT TYPES AND DEPTHS AS INDICATED BELOW

1-1/2" SURFACE COURSE (5 LT 58-28S) 1-1/2" SURFACE COURSE (5 LT 58-28S WISDOT 455.2.5 TACK COAT (STAGED PAVING) 2" BINDER COURSE (4 LT 58-28S) " BINDER COURSE (4 LT 58-28S)

10" MIN. OF 1-1/4" CRUSHED AGGREGATE (REUSE EXISTING STONE BASE AS APPLICABLE) 12" MIN. OF 1-1/4" CRUSHED AGGREGATE (REUSE EXISTING STONE BASE AS APPLICABLE) B. CONTRACTOR TO COMPACT THE AGGREGATE BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY

AND STRUCTURE CONSTRUCTION. ALL ASPHALT PAVEMENT AREAS SHALL BE PAVED TO WITHIN 0.05' OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1.0% SLOPE SHALL BE MAINTAINED IN ALL ASPHALT PAVEMENT AREA.
C. HOT MIX ASPHALT CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF GEOTECHNICAL REPORT OR CONSTRUCTION DOCUMENTS

CONTRACTOR TO PROVIDE 4" WIDE WHITE PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. WHITE PAINT MARKINGS SHALL ALSO BE PROVIDED FOR H.C. ACCESSIBL

32 20 00 CONCRETE AND AGGREGATE BASE

A. CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS B. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL AGGREGATE PLACED MUST BE OMPACTED TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTIO

C. DESIGN AND CONSTRUCTION OF ALL CAST-IN-PLACE EXTERIOR CONCRETE FLAT WORK SHALL CONFORM TO ACI 330R-08 & ACI 318-08

CONSTRUCTION STAKING SERVICES

CONSTRUCTION STAKING SHALL BE COMPLETED BY EXCEL ENGINEERING AS REQUESTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO CONTACT RYAN WILGREEN AT 920-926-9800 OR RYAN.W@EXCELENGINEER.COM TO GET STAKING PRICE TO INCLUDE IN BID TO OWNER. PAYMENT OF STAKING COSTS ABOVE AND BEYOND THE BASE PRICE DUE TO RESTAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, NOT THE OWNER. CAD DRAWING FILES AND SURVEY CONTROL WILL NOT BE PROVIDED FOR STAKING PURPOSES.

ALL DRIVEWAYS AND CURB CUTS TO BE CONSTRUCTED ACCORDING TO LOCAL ORDINANCES. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WORK IN ROW PERMITS FOR TOWN AND CITY.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NEIGHBORING PROPERTY OWNER PERMISSION FOR WORK ON RESPECTIVE PROPERTIES PRIOR TO CONSTRUCTION.

PROJECT WILL BE CONSTRUCTED IN 2 PHASES. PHASE 1 WILL CONSTRUCT WEST SIDE LEAVING EXISTING SITE OPERATIONAL. PHASE 2 WILL INCLUDE RAZING OF EXISTING STRUCTURE FOR REPLACEMENT WITH

CONTRACTOR TO CONTACT EXCEL ENGINEERING TO COMPLETE AS-BUILT SURVEY OF STORMWATER POND

STORMWATER POND ASBUILT NOTE

CONTRACTOR TO CONTACT EXCEL ENGINEERING TO COMPLETE AN AS-BUILT SURVEY FOLLOWING COMPLETION OF THE CONSTRUCTION OF THE STORMWATER POND. THE SURVEY SHALL BE COMPLETED PRIOR TO THE POND FILLING WITH WATER. CONTRACTOR SHALL GIVE EXCEL ENGINEERING A MINIMUM OF A 3 DAY NOTICE. ANY ADDITIONAL WORK REQUIRED TO SURVEY A POND FULL OF WATER OR FOR SURVEYING FOLLOWING REWORK SHALL BE AT THE

D. EXTERIOR CONCRETE FLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE GEOTECHNICAL REPORT OR THIS SPECIFICATION. CONCRETE FLAT WORK SIDEWALK CONCRETE - 4" OF CONCRETE OVER 6" OF 3/4" CRUSHED AGGREGATE BASE. CONCRETE SHALL BE REINFORCED WITH MICRO-FIBERS THAT ARE 100% VIRGIN POLYPROPYLENE. FIBRILLATED UGH TEXTURED, INTERCONNECTED FIBERS CONTAINING NO PREPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR CONCRETE REINFORCEMENT AT A RATE OF 1.5 LBS FIBER/CUBIC YARD OF CONCRETE, FIBER REINFORCEMENT SHALL BE FIBERMESH 300 (OR EQ.) AND CONFORM WITH ASTM C1116. TYPE III FIBER REINFORCED CONCRETE, CONTRACTION JOINTS SHALL

3. DUMPSTER PAD/APRON CONCRETE - 6" OF CONCRETE OVER 6" OF AGGREGATE BASE.
a. CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO ½ OF THE SLAB: 1). TIE BARS AT ALL CONTRACTION JOINTS OF THE CONCRETE. TIE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.

b. DUMPSTER PAD CONCRETE JOINTING SHALL BE AS FOLLOWS:

ONSIST OF 1/8" WIDE BY 1" DEEP TOOLED JOINT WHERE INDICATED ON THE PLANS.

1). CONTRACTION SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH. 2). TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1-1/4" DIAMETER BY 20" LONG SMOOTH DOWEL PLACED AT 12" O.C. ONE HALF OF THE DOWEL SHALL BE GREASED. GREENSTREAK 9" SPEED DOWEL TUBES SHALL BE USED.

4. PUBLIC ROW PAVEMENT - ALL PUBLIC ROW CONCRETE SHALL MEET THE STANDARDS OF THE CITY OF SHEBOYGAN PUBLIC WORKS DEPARTMENT TECHNICAL STANDARDS RIGHT OF WAY

E. DESIGN MIXES SHALL BE IN ACCORDANCE WITH ASTM C94 1. STRENGTH TO BE MINIMUM OF 4,000 PSI AT 28 DAYS FOR EXTERIOR CONCRETE

2. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45. 3. SLUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE FLAT WORK

4. SLUMP SHALL BE 2.5" OR LESS FOR SLIP-FORMED CURB AND GUTTER 5. SLUMP SHALL BE BETWEEN 1.5" TO 3" FOR NON SLIP-FORMED CURB AND GUTTER

6. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 4% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE

7. MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES. F. VERIFY EQUIPMENT CONCRETE PAD SIZES WITH CONTRACTOR REQUIRING PAD. PADS SHALL HAVE FIBERMESH 300 FIBERS AT A RATE OF 1.5 LBS/CU, YD, OR 6 X 6-W1.4 X W1.4 WELDED WIRE MESH WITH MINIMUM 1 INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. COORDINATE ADDITIONAL PAD REQUIREMENTS WITH RESPECTIVE

G. ALL CONCRETE FLAT WORK SURFACES AND CONCRETE CURB FLOWLINES SHALL BE CONSTRUCTED TO WITHIN 0.05' OF DESIGN SURFACE AND FLOWLINE GRADES ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS. H. CONCRETE FLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLI BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER JOINTING SHALL BE PLACED EVERY 10' OR CLOSER (6' MIN.). IF CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB, JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH

SOLIDS CURING COMPOUND MEETING ASTM C309 SHOULD BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE IS TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATEI FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.25 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS. I. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND ITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPPED 36 DIAMETERS FOR UP TO #6 BARS, 60 DIAMETERS FOR #7 TO #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNER RARS. PLACING AND DETAILING OF STELL REINFORCING AND REINFORCING SUPPORTS SHALL RE IN ACCORDANCE WITH

CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE/OIL, DIRT OR DEEP RUST WHEN PLACED IN THE WORK. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 185. WELDED WIRE FABRIC SHALL BE PLACED 2" FROM TOP OF SLAB, UNLESS INDICATED OTHERWISE CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT TESTS WILL BE PERFORMED ACCORDING TO ACI 301. CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH ONCRETE MIX EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. PERFORM COMPRESSIVE-STRENGTH TESTS ACCORDING TO ASTMIC 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTMIC 143. PROVIDE ONE TEST AT POINT OF PLACEMENT FOR EACH

COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE. K. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION-CONTROL COMPOUND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELLING. L. LIMIT MAXIMUM WATER-CEMENTITIOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING AND DEICING SALTS TO 0.45.

M. TEST RESULTS WILL BE REPORTED IN WRITING TO THE DESIGN ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE ATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS

N. CONTRACTOR TO PROVIDE 4" WIDE WHITE PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. WHITE PAINT MARKINGS SHALL ALSO BE PROVIDED FOR H.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

32 30 00 LANDSCAPING AND SITE STABILIZATION

A. TOPSOIL: CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN A LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPER FINAL GRADING. LANDSCAPER TO PROVIDE PULVERIZING AND FINAL GRADING OF TOPSOIL PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL MENDMENTS. TEST SOIL FOR PRESENCE OF ATRAZINE AND INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 8, CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT, AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH SHALL ALSO BE REMOVED OPSOIL INSTALLATION: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1" IN DIAMETER. ALSO REMOVE ANY STICKS, ROOTS, RUBBISH, AND OTHER INEOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD TOPSOIL IF SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN 0.05 FEET OF FINISHED GRADE ELEVATION.

B. SEEDED LAWNS: 1. PERMANENT LAWN AREAS SHALL BE SEEDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS BLEND (2.0-2.6 LBS./1.000 S.F.), 20% PERENNIAL RYEGRASS (0.6-0.8 LBS./1.000 S.F.), 15% FINE FESCUE (0.4-0.6 LBS/1,000 S.F.). STRAW AND MULCH SHALL BE LAID AT 100LBS/1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS/1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. ALL SITE DISTURBED AREAS NOT DESIGNATED FOR OTHER LANDSCAPING AND SITE STABILIZATION METHODS SHALL BE SEEDED AS PERMANENT LAWN. NO BARE

TOPSOIL SHALL BE LEFT ONSITE. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059. 2. ALL PERMANENT AND TEMPORARY STORM WATER CONVEYANCE SWALE BOTTOMS AND SIDE SLOPES AS WELL AS STORMWATER MANAGEMENT BASIN BOTTOMS AND SIDE SLOPES SHALL BE SEEDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.60 LBS./1,000 S.F.), 40% CREEPING RED FESCUE (0.50 LBS./1,000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LBS./1,000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR FOLIVALENT AT 5-6 LBS /1 000 S.E. SEE FROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WONR TECHNICAL STANDARDS.

3. ALL TEMPORARY SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 1.9 LBS./1,000 S.F. STRAW AND MULCH SHALL BE LAID AT 100 LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059. EEDED LAWN MAINTENANCE: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE RIOD. A HEALTHY, UNIFORM, CLOSE STAND OF GRASS SHOULD BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. LAWN COVERAGE SHOULD EXCEED 90% AND BARE SPOTS SHOULD

2. CONTRACTOR TO PROVIDE EROSION MATTING (NORTH AMERICAN GREEN C125) OR EQUIVALENT IN ALL SWALE BOTTOMS AND SIDE SLOPES AS WELL AS STORMWATER MANAGEMENT BASIN

BOTTOMS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS. STORMWATER MANAGEMENT POND SAFETY SHELF SEEDING: SAFETY SHELF SHALL BE SEEDED WITH A WET PRAIRIE EMERGENT PLANT TYPE MIX RIP RAP: ALL RIP RAP ASSOCIATED WITH STORMWATER MANAGEMENT AND STORMWATER CONVEYANCE AS DELINEATED ON THE PLANS SHALL RE CONSTRUCTED WITH THE TOP OF RIP RAP TCHING THE PROPOSED ADJACENT GRADE ELEVATIONS. PLACEMENT OF RIP RAP ABOVE THE PROPOSED ADJACENT GRADE ELEVATIONS IS NOT ACCEPTABLE. ALL RIP RAP SHALL BE PLACED ON TYPE HR FILTER FABRIC PER SECTION 645 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURAL CONSTRUCTION

i. Trees and shrubs: furnish nursery-grown trees and shrubs with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, and healthy looking stock. Stock should also be free of disease, insects, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement. See the

THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER. SET TREES AND SHRUBS PLUMB AND IN CENTER OF PIT WITH TOP OF BALL 1" ABOVE ADJACENT FINISHED GRADES. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS AND TAMP TO SETTLE MIX. WATER ALL PLANTS THOROUGHLY. PROVIDE TEMPORARY STAKING FOR TREES AS REQUIRED. TREE AND SHRUB MAINTENANCE/WARRANTY: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. MAINTENANCE TO NCLUDE REGULAR WATERING AS REQUIRED FOR SUCCESSFUL PLANT ESTABLISHMENT. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS

MINERAL MULCH: PROVIDE 3" MINIMUM THICK BLANKET OF 1.5" MINIMUM TO 2.5" MAXIMUM CRUSHED DECORATIVE STONE AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTAL OVER NON-WOVEN WEED BARRIER FABRIC. COLOR BY OWNER K. PLASTIC EDGING: INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAWN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWN AREAS. EDGING TO BE 5.5" TALL WITH METAL STAKES INSTALLED

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY B. CONTRACTOR TO FIELD TELEVISE ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELEVISING SHALL BE COMPLETED TO

ENSURE THE EXISTING LATERAL(S) ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISING OF THESE LATERAL(S) SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION IND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISING . ALL PROPOSED SANITARY PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE ON CO.1 OF THE PROPOSED PLANSET. ALL PROPOSED SANITARY PIPE BELOW PROPOSED & FUTURE BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE ON CO.1 OF THE PROPOSED PLANSE' 2. SANITARY MANHOLES SHALL BE 48" PRECAST AND CONFORM TO THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN-CURRENT EDITION UNLESS OTHERWISE directed by the engineer. Process manholes shall be lined w/ gse studliner lining. Sanitary & process manhole frame and grate to be neenah r-1550-a or equal. Rim elevation

TO BE SET AT FINISHED GRADE IN DEVELOPED AREAS AND 12" ABOVE FINISHED GRADE IN UNDEVELOPED AREAS EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER.

. CLEANOUTS SHALL BE PROVIDED FOR THE SANITARY SERVICE AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE sanitary service with the cleanout leg of the combination wye facing straight up. The cleanout shall consist of a (4" or 6") vertical pvc pipe with a water tight removable PREDICTED FROST DEPTH, WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE FROST SLEEVE TERMINATING AT THE grade surface. The cleanout shall extend to 4 inches below surface grade in paved surfaces with a zurn (z-1474-n) heavy duty cleanout housing placed over the top of the LEANOUT FLUSH WITH THE SURFACE GRADE. IN PAVED SURFACES, THE FROST SLEEVE SHALL TERMINATE IN A CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES, SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURERS REQUIREMENTS F. ALL PROPOSED WATER PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE ON C0.1 OF THE PROPOSED PLANSET. 6' MINIMUM COVER SHAI

i. ALL PROPOSED STORM PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE ON CO.1 OF THE PROPOSED PLANSET. ALL PROPOSED STORM PIPE BELOW BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE ON CO.1 OF THE PROPOSED PLANSET. SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 8' HORIZONTALLY FROM FOUNDATION WALLS

H. SANITARY, STORM, AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.10' OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY SEWER FOR INTERNALLY DRAINED BUILDINGS TO A POINT WHICH IS A MINIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 6" ABOVE SURFACE GRADE FOR CONNECTION TO DOWNSPOUT. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUT

ONTRACTOR/GC PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERMINE BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION. J. ALL UTILITIES SHALL BE INSTALLED WITH PLASTIC COATED TRACER WIRE (10 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE). PLASTIC WIRE MAY BE TAPED TO PLASTIC WATER OR SEWER PIPE. ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL/STATE REQUIREMENTS K. ALL UTILITIES SHALL BE INSTALLED PER STATE, LOCAL, AND INDUSTRY STANDARDS. WATER, SANITARY, AND STORM SEWER SHALL BE INSTALLED PER "STANDARD SPECIFICATION FOR SEWER AND

water construction in Wisconsin". The design engineer shall be responsible for obtaining state plumbing review approval. The contractor is responsible for obtaining all OTHER PERMITS REQUIRED TO INSTALL WATER, SANITARY AND STORM SEWER. . SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS. M. ALL ADJUSTING RINGS SHALL BE PRORING



TELEFAX (414) 259-0947 TDD (FOR THE HEARING IMPAIRED) 1-800 542-2289 WISCONSIN STATUTE 182.0175 (1974) REQUIRES MINIMUM OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

CONTACTS

VAN HORN PROPERTIES OF SHEBOYGAN LLC P.O. BOX 298 PLYMOUTH, WI 53073 CONTACT: JEFF NIESEN P: (920) 892-6466 jniesen@vhcars.com

EXCEL ENGINEERING 100 CAMELOT DRIVE FOND DU LAC, WISCONSIN 54935 CONTRACT NO: **EOR: ERIC DRAZKOWSKI, P.E.** CONTACT: ALEX MUHL P: (920) 926-9800 F: (920) 926-9801

CIVIL COVER AND SPECIFICATION SHEET

ISSUED FOR CONSTRUCTION *



N216 State Road 55 711 Lois Drive P.O. Box 620 Sun Praire, WI 53590 Kaukauna, WI 54130 PHONE (608) 318-2336 PHONE (920) 766-5795

1-800-236-2534 FAX (920) 766-5004 MILWAUKEE W204 N11509 5605 Lilac Ave Wausau, WI 54401 Germantown, WI 53022 PHONE (715) 849-3141

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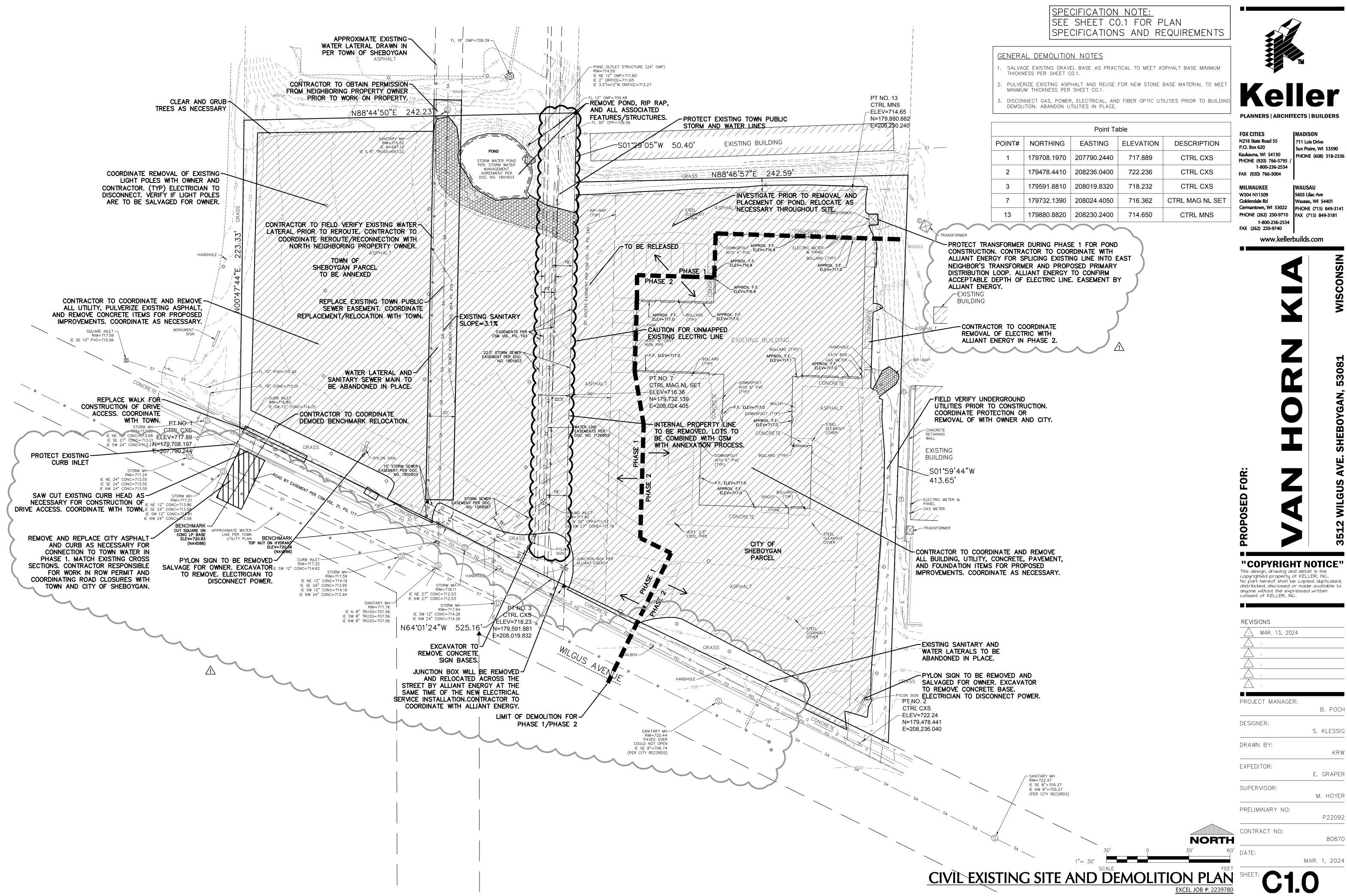
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MAR. 13, 2024

PROJECT MANAGER: B. POCH S. KLESSIG EXPEDITOR: E. GRAPER

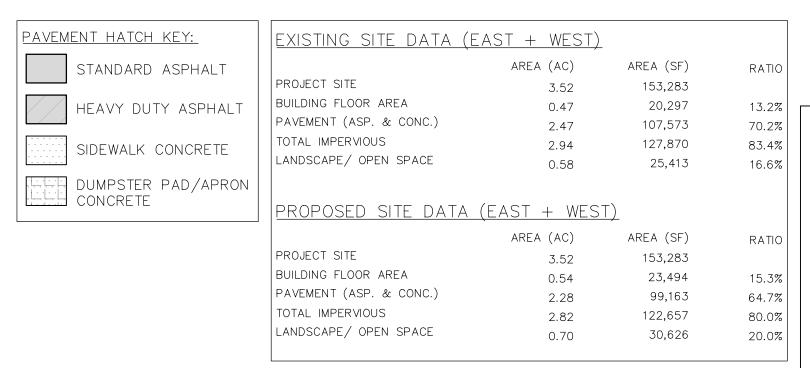
M. HOYER PRELIMINARY NO: P22092

MAR. 1, 2024



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PROJECT MANAGER:	В. РОСН
DESIGNER:	
	S. KLESSIG
DRAWN BY:	
	KRW
EXPEDITOR:	
	E. GRAPER

ISSUED FOR CONSTRUCTION "



-----5'-PAVEMENT-SETBACK

PT NO. 13

CTRL MNS

ELEV=714.65 N=179,880.882

/E≠208,230.240

SITE INFORMATION:

SPECIFICATION NOTE: SEE SHEET CO.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

TOWN OF SHEBOYGAN PARCEL NUMBER: 59024351652 CITY OF SHEBOYGAN PARCEL NUMBER: 59281215827

PROPERTY AREA TOWN (WEST): 68,171 S.F. (1.56 ACRES) PROPERTY AREA CITY (EAST): 85,112 S.F. (1.95 ACRES) TOTAL PROPERTY AREA: 153,283 S.F. (3.51 ACRES)

EXISTING ZONING TOWN: B-4C (PLANNED BUSINESS PARK) EXISTING ZONING CITY: SC (SUBURBAN COMMERCIAL)

PROPOSED ZONING CITY: SC (SUBURBAN COMMERCIAL WITH PUD)

ADJACENT ZONING:

NORTH: UC (URBAN COMMERCIAL) EAST: SC (SUBURBAN COMMERCIAL)

SOUTH: ROW WEST (TOWN OF SHEBOYGAN): B-2 (GENERAL BUSINESS)

PROPOSED USE: CAR DEALERSHIP WITH PARKING LOT (OUTDOOR DISPLAY=CUP)

SETBACKS: BUILDING: FRONT = 25' SIDE = 10'REAR = 10'

PAVEMENT: FRONT = 10'SIDE = 5'REAR = 5'

MAX. BUILDING HEIGHT ALLOWED TOWN: 50'

PARKING REQUIRED: 1 STALL PER 300 S.F. OF GROSS FLOOR AREA (78 STALLS REQ.) PARKING PROVIDED: 213 STALLS ACCESSIBLE PARKING REQUIRED: 3 STALLS; ACCESSIBLE PARKING PROVIDED: 3 STALLS

LANDSCAPE REQUIREMENTS:

MAXIMUM IMPERVIOUS SURFACE CITY: 75% SITE PLAN KEYNOTES STANDARD ASPHALT SECTION (TYP.) HEAVY DUTY ASPHALT SECTION (TYP.) CONCRETE SIDEWALK (TYP.)

PUBLIC ROW DRIVEWAY CONCRETE PUBLIC ROW ASPHALT MATCH CROSS SECTION DUMPSTER PAD/APRON CONCRETE (TYP.) CONCRETE STOOP (TYP.) SEE ARCH. PLANS FOR DETAILS.

FLUSH WALK (TYP.) CURB RAMP (TYP.)

RAISED WALK (TYP.)

ADA CURB RAMP (TYP.) 18" CURB & GUTTER (TYP.)

MATCH CITY ROW CURB & GUTTER

CURB TAPER (TYP.)

CONCRETE TRANSFORMER PAD BY UTILITY SUPPLIER (CONTRACTOR TO VERIFY FINAL LOCATION & DESIGN PRIOR TO CONSTRUCTION)

HANDICAP BOLLARD WITH BLACK SLEEVE AND HC STICKERS

HANDICAP STALL & STRIPING PER STATE CODES. PYLON SIGN. ELECTRICIAN TO WIRE, BASE BY SIGN COMPANY (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR)

DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS) BOLLARDS (SEE DETAIL ON ARCH. PLAN)

DETECTABLE WARNING PLATE

PAINT STRIPING (TYP). COLOR TO MATCH PARKING STALL STRIPING. SERVICE DIRECTIONAL SIGN (DETAILS, FINAL LOCATION, & APPROVAL

BY SIGN VENDOR) (CONTRACTOR TO VERIFY IF POWER IS REQUIRED)

EV CHARGER TO BE INSTALLED DURING PHASE 1 (DETAIL BY MANUFACTURER, SEE SITE UTILITY PLAN FOR TYPE/WALL OR PEDESTAL MOUNTED) FUTURE EV CHARGER. PROVIDE ROUGHED IN CONDUIT.

1,000 GALLON WASTE OIL TANK. DETAIL BY MANUFACTURER TIRE STORAGE

TEMPORARY JOB TRAILER BY KELLER-POWER TO TRAILER TEMPORARY FENCE BY KELLER SCRAP ENCLOSURE 6' CHAINLINK FENCE WITH PRIVACY SLATS AND

(2) 5' GATES (SEE ARCH PLANS FOR DETAILS) IDENTIFICATION: KEYNOTE ITEM(QUANTITY) - IF NO () = QUANTITY IS 1 DATE:

CIVIL SITE PLAN PHASE 1
EXCEL JOB #: 2239780

SHEET: C1.1A

ISSUED FOR CONSTRUCTION

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MAR. 13, 2024

PROJECT MANAGER: B. POCH

S. KLESSIG DRAWN BY:

EXPEDITOR: E. GRAPER

SUPERVISOR: M. HOYER PRELIMINARY NO: P22092

80870

MAR. 1, 2024

Road Right-of-Way Rural Agriculture Suburban Commercial District Suburban Industrial District Suburban Office District uburban Residential-3 Distric Suburban Residential-5 District Unit Development Urban Commercial District Urban Industrial District Urban Residential-12 Distric

CTRL CXS ELEV=717.89-N=179,708.197

E=207,790.244

Neighborhood Office District Neighborhood Residential-6 District

NORTH

Pre-Planned Unit Development District

25' PROPOSED SANITARY

MAIN AND WATER LATERAL EASEMENT

BENCHMARK TOP NUT ON HYDRANT ELEV=720.56

PROJECT LOCATION MAP

CTRL CXS LEV=718.23—

E=208,019.832

N64°01'24"W 525.16'-

ASPHALT

√N88°44'50"E 242.23'

PROPOSED BUILDING 23,269 S.F. CIVIL F.F.=718.50 ARCH. F.F.=100.00

<u>5' PAVEMENT SETB</u>ACK

PROPOSED GARAGE 225 S.F. CIVIL F.F.=717.45 ARCH. F.F.=100.00

-S01°29'05"W 50.40'

PHASE 2

PT NO. 7

CTRL MAG NL SET -ELEV=716.36

N=179,732.139 E=208,024.405

GRASS N88'46'57"E 242.59'

EXISTING BUILDING

CTRL CXS -ELEV=722.24 N=179,478.441 E=208,236.040

NORTH

EXISTING

BUILDING

413.65'

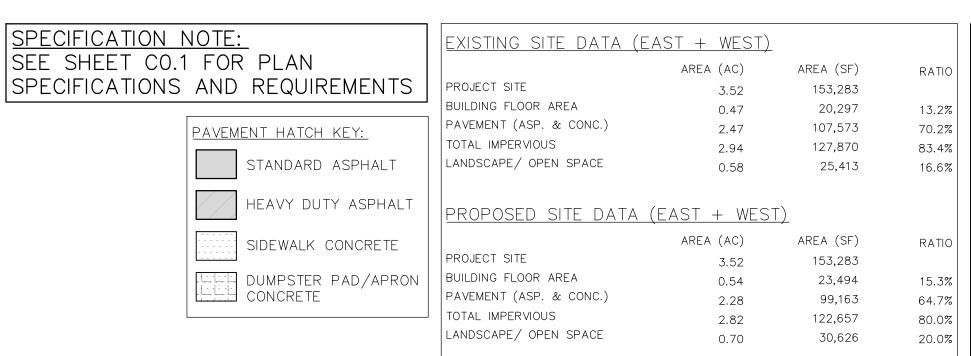
ELECTRIC METER & PANEL

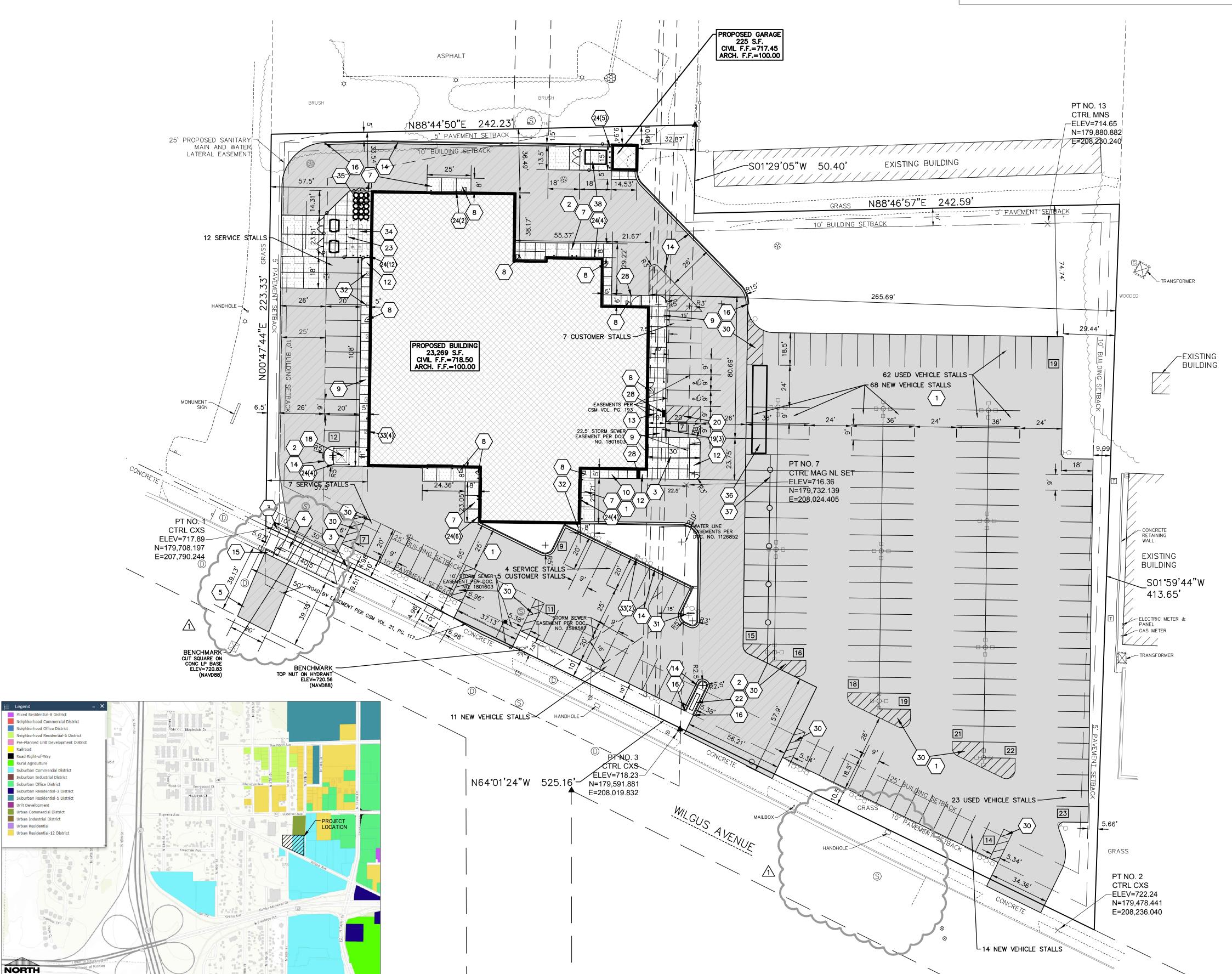
GAS METER

TRANSFORMER

PT NO. 2

S01°59'44"W





PROJECT LOCATION MAP

SITE INFORMATION:

TOWN OF SHEBOYGAN PARCEL NUMBER: 59024351652 CITY OF SHEBOYGAN PARCEL NUMBER: 59281215827

PROPERTY AREA TOWN (WEST): 68,171 S.F. (1.56 ACRES) PROPERTY AREA CITY (EAST): 85,112 S.F. (1.95 ACRES) TOTAL PROPERTY AREA: 153,283 S.F. (3.51 ACRES)

EXISTING ZONING TOWN: B-4C (PLANNED BUSINESS PARK) EXISTING ZONING CITY: SC (SUBURBAN COMMERCIAL)

PROPOSED ZONING CITY: SC (SUBURBAN COMMERCIAL WITH PUD)

ADJACENT ZONING: NORTH: UC (URBAN COMMERCIAL) EAST: SC (SUBURBAN COMMERCIAL)

SOUTH: ROW WEST (TOWN OF SHEBOYGAN): B-2 (GENERAL BUSINESS)

PROPOSED USE: CAR DEALERSHIP WITH PARKING LOT (OUTDOOR DISPLAY=CUP)

SETBACKS: BUILDING: FRONT = 25' SIDE = 10'REAR = 10'

PAVEMENT: FRONT = 10

SIDE = 5'REAR = 5

MAX. BUILDING HEIGHT ALLOWED TOWN: 50'

PARKING REQUIRED: 1 STALL PER 300 S.F. OF GROSS FLOOR AREA (78 STALLS REQ.)

PARKING PROVIDED: 213 STALLS

KIA STALL BREAKDOWN:

NEW CAR STALLS: REQUIRED (83); PROVIDED (93) USED CAR STALLS: REQUIRED (44); PROVIDED (85) CUSTOMER STALLS: REQUIRED (8); PROVIDED (12) SERVICE STALLS: REQUIRED (21); PROVIDED (23)

LANDSCAPE REQUIREMENTS:

MAXIMUM IMPERVIOUS SURFACE TOWN: 40% MAXIMUM IMPERVIOUS SURFACE CITY: 75%

SITE PLAN KEYNOTES STANDARD ASPHALT SECTION (TYP.)

HEAVY DUTY ASPHALT SECTION (TYP.)

CONCRETE SIDEWALK (TYP.)

PUBLIC ROW DRIVEWAY CONCRETE

PUBLIC ROW ASPHALT MATCH CROSS SECTION

DUMPSTER PAD/APRON CONCRETE (TYP.) CONCRETE STOOP (TYP.) SEE ARCH. PLANS FOR DETAILS.

RAISED WALK (TYP.)

FLUSH WALK (TYP.)

CURB RAMP (TYP.)

ADA CURB RAMP (TYP.)

18" CURB & GUTTER (TYP.)

MATCH CITY ROW CURB & GUTTER

CURB TAPER (TYP.)

CONCRETE TRANSFORMER PAD BY UTILITY SUPPLIER (CONTRACTOR TO VERIFY FINAL LOCATION & DESIGN PRIOR TO

CONSTRUCTION) HANDICAP BOLLARD WITH BLACK SLEEVE AND HC STICKERS

HANDICAP STALL & STRIPING PER STATE CODES.

PYLON SIGN. ELECTRICIAN TO WIRE, BASE BY SIGN COMPANY (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR)

DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)

BOLLARDS (SEE DETAIL ON ARCH. PLAN)

DETECTABLE WARNING PLATE

PAINT STRIPING (TYP). COLOR TO MATCH PARKING STALL STRIPING. SERVICE DIRECTIONAL SIGN (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR) (CONTRACTOR TO VERIFY IF POWER IS REQUIRED)

(DETAIL BY MANUFACTURER, SEE SITE UTILITY PLAN FOR TYPE) FUTURE WALL MOUNTED EV CHARGERS. PROVIDE ROUGHED IN CONDUIT.

WALL MOUNTED EV CHARGER TO BE INSTALLED DURING PHASE 1

1,000 GALLON WASTE OIL TANK. DETAIL BY MANUFACTURER

TIRE STORAGE

TEMPORARY JOB TRAILER BY KELLER-POWER TO TRAILER TEMPORARY FENCE BY KELLER

IDENTIFICATION: KEYNOTE ITEM(QUANTITY) - IF NO () = QUANTITY IS 1.

CIVIL SITE PLAN PHASE 2

EXCEL JOB #: 2239780

PLANNERS | ARCHITECTS | BUILDERS

FOX CITIES N216 State Road 55 711 Lois Drive P.O. Box 620 Sun Praire, WI 53590 Kaukauna, WI 54130 PHONE (608) 318-2336 PHONE (920) 766-5795 1-800-236-2534

FAX (920) 766-5004 MILWAUKEE 5605 Lilac Ave W204 N11509 Goldendale Rd Wausau, WI 54401 Germantown, WI 53022 PHONE (715) 849-3141 PHONE (262) 250-9710 FAX (715) 849-3181

FAX (262) 250-9740

1-800-236-2534

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MAR. 13, 2024 PROJECT MANAGER:

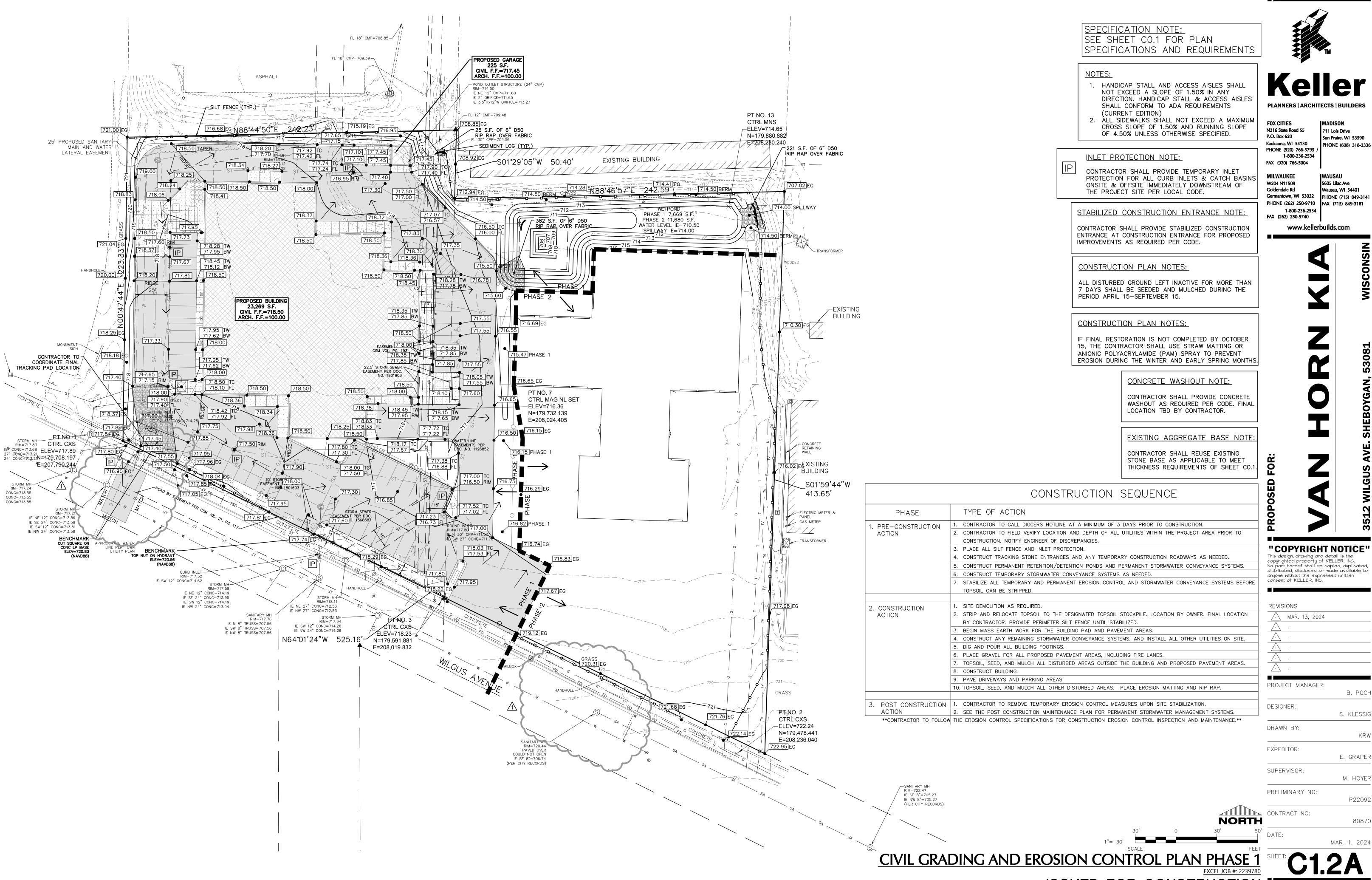
B. POCH S. KLESSIG

DRAWN BY: EXPEDITOR: E. GRAPER

SUPERVISOR: M. HOYER

PRELIMINARY NO: P22092 CONTRACT NO: 80870

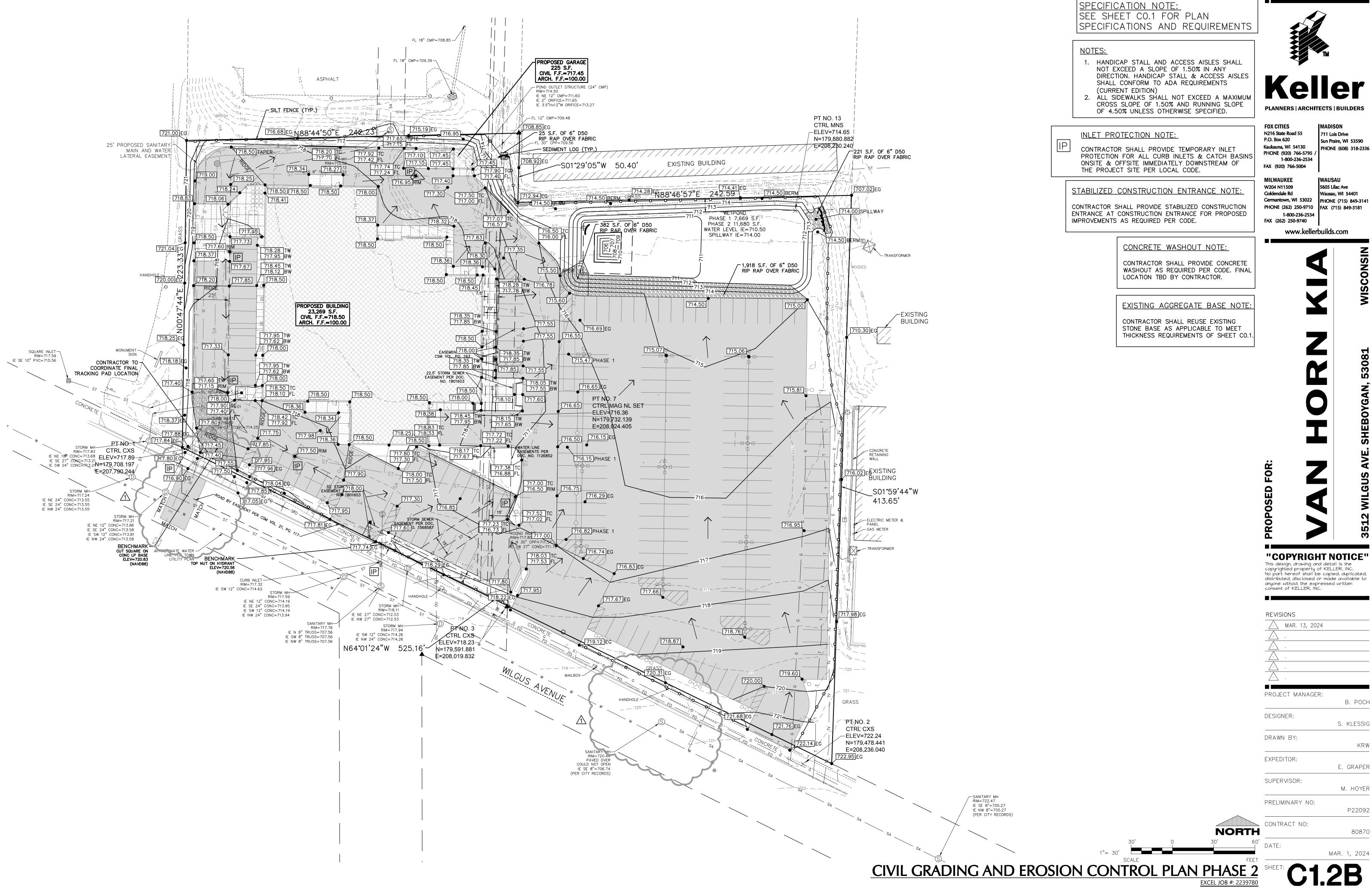
ISSUED FOR CONSTRUCTION *



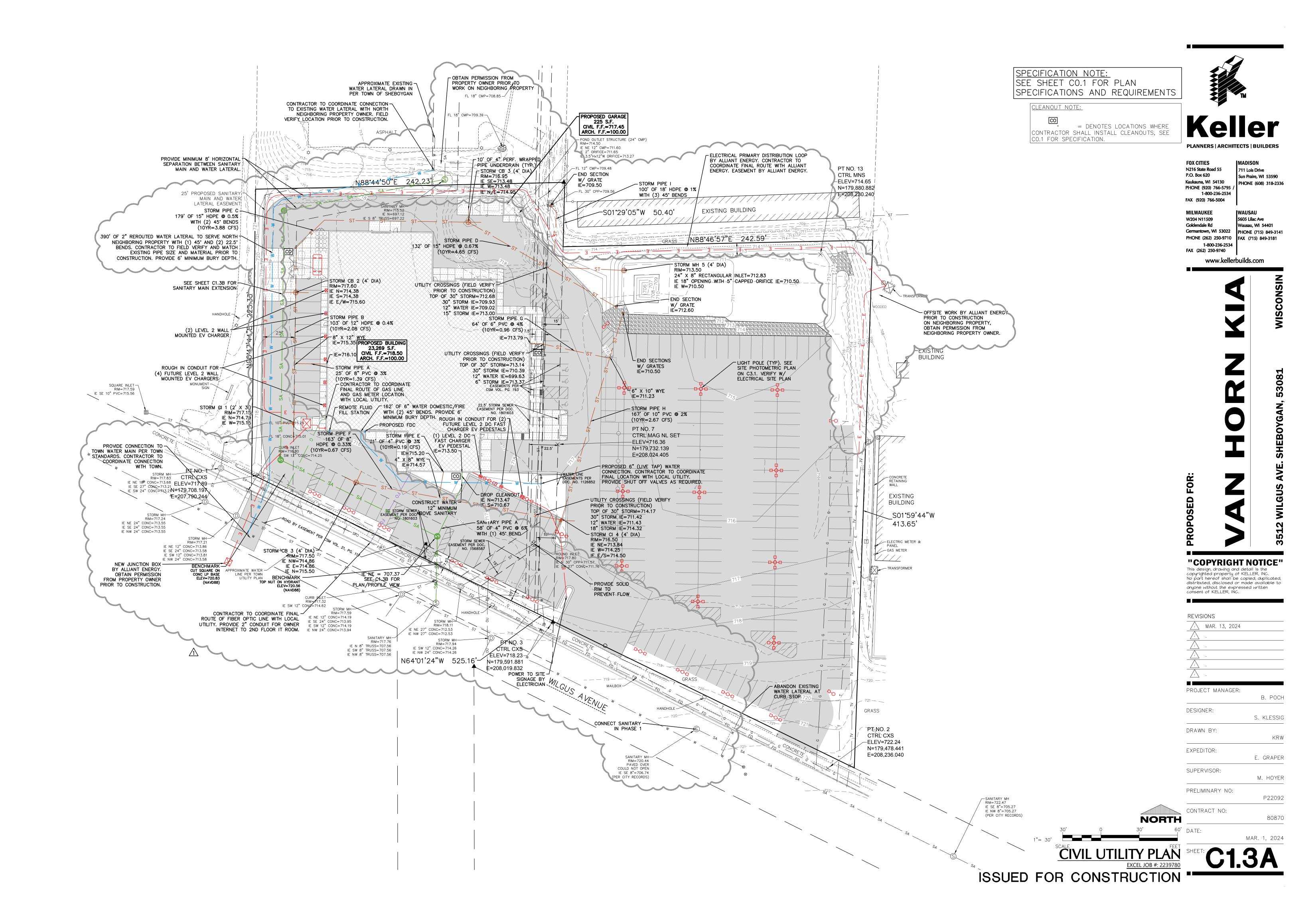
B. POCH S. KLESSIG KRW

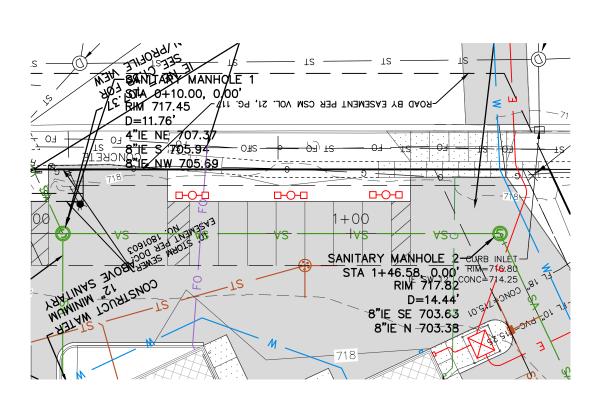
E. GRAPER

ISSUED FOR CONSTRUCTION

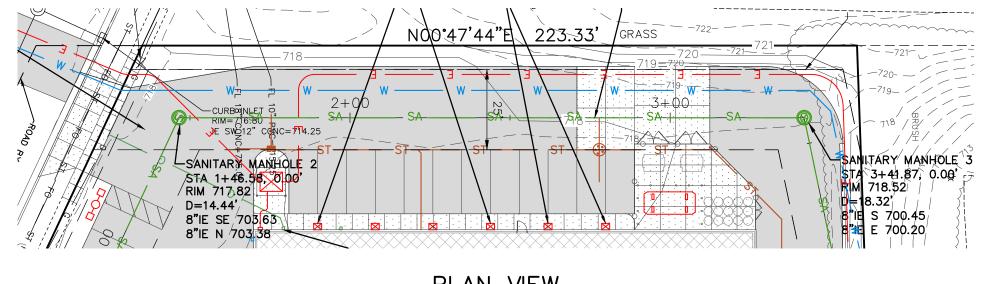


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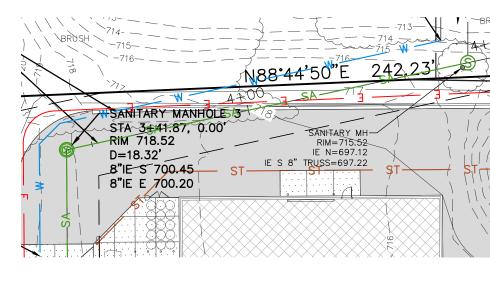




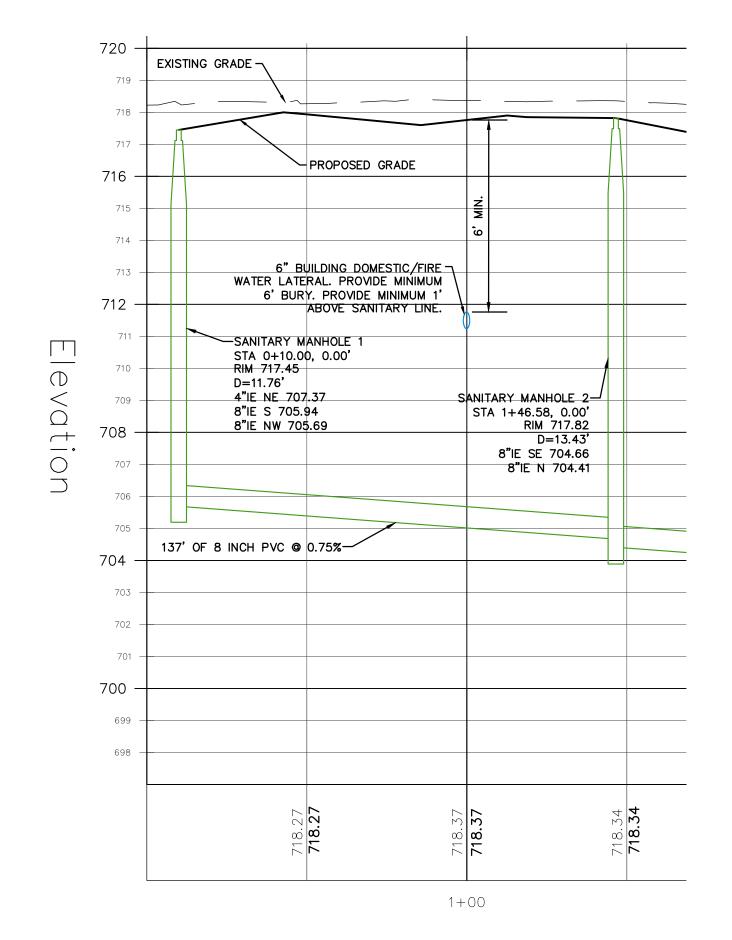
PLAN VIEW HORIZONTAL: 1"=30"



PLAN VIEW HORIZONTAL: 1"=30"

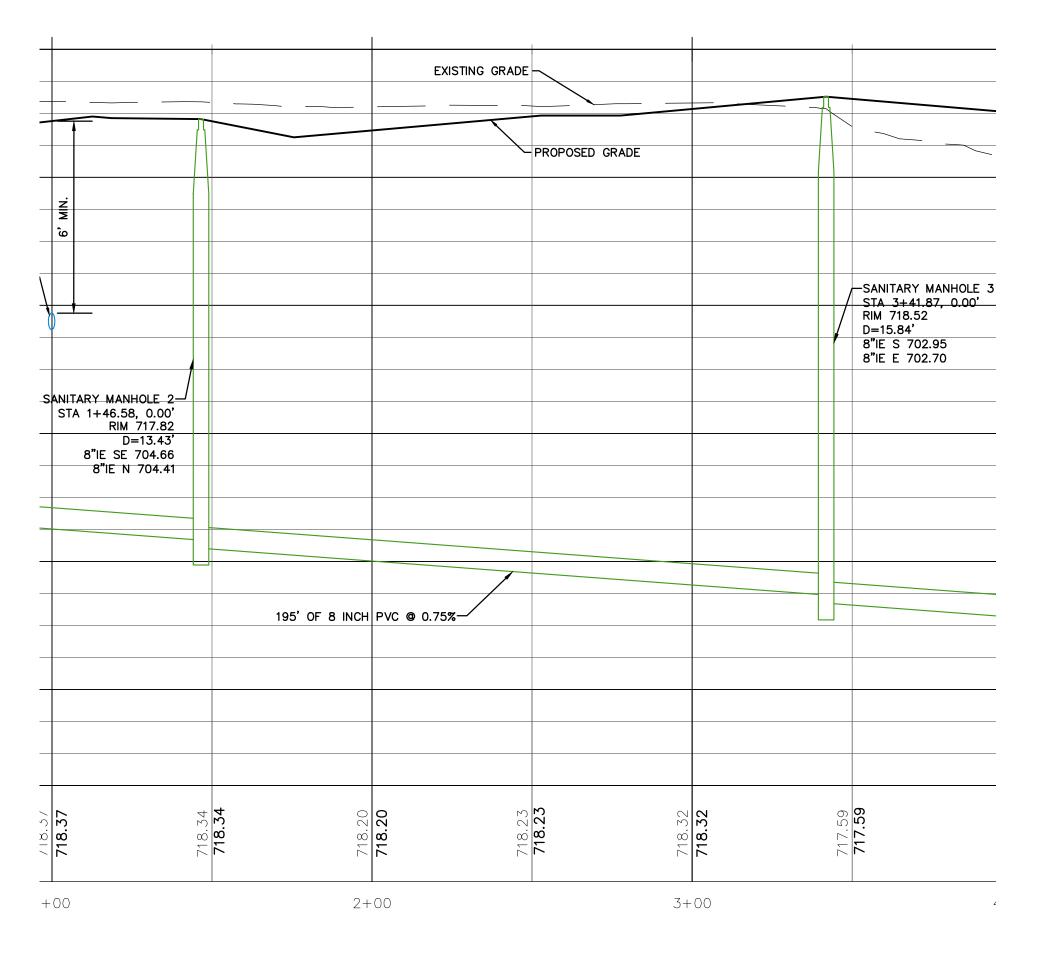


PLAN VIEW HORIZONTAL: 1"=30"



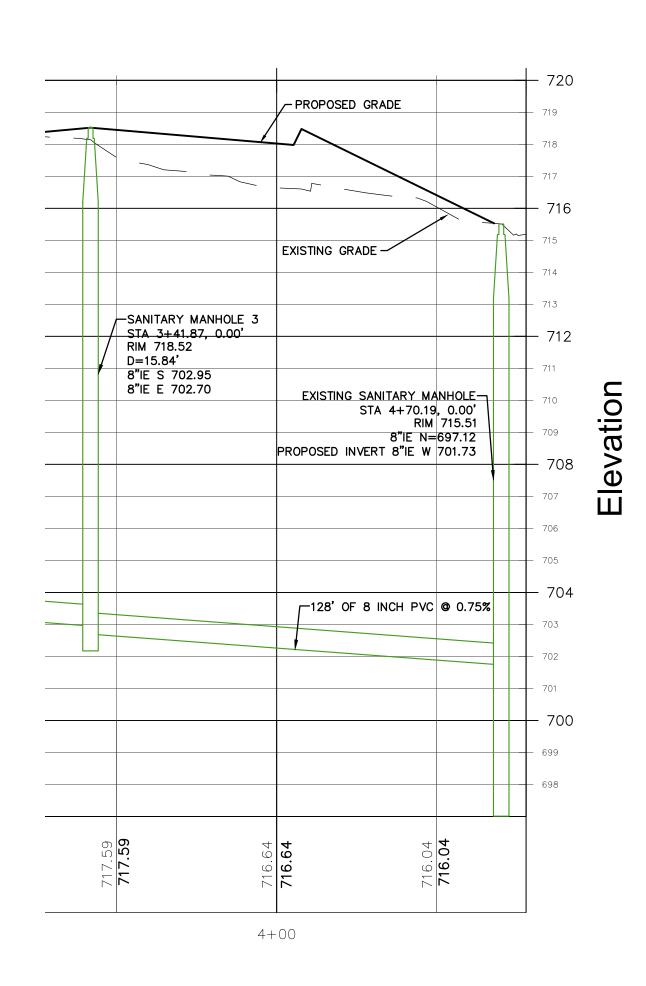
PROFILE VIEW

HORIZONTAL: 1"=30"
VERTICAL: 1"=3"



PROFILE VIEW

HORIZONTAL: 1"=30"
VERTICAL: 1"=3"



PROFILE VIEW

HORIZONTAL: 1"=30"
VERTICAL: 1"=3"

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FOR:

REVISIONS MAR. 13, 2024 PROJECT MANAGER: В. РОСН

S. KLESSIG DRAWN BY: KRW EXPEDITOR: E. GRAPER SUPERVISOR: M. HOYER PRELIMINARY NO:

CONTRACT NO:

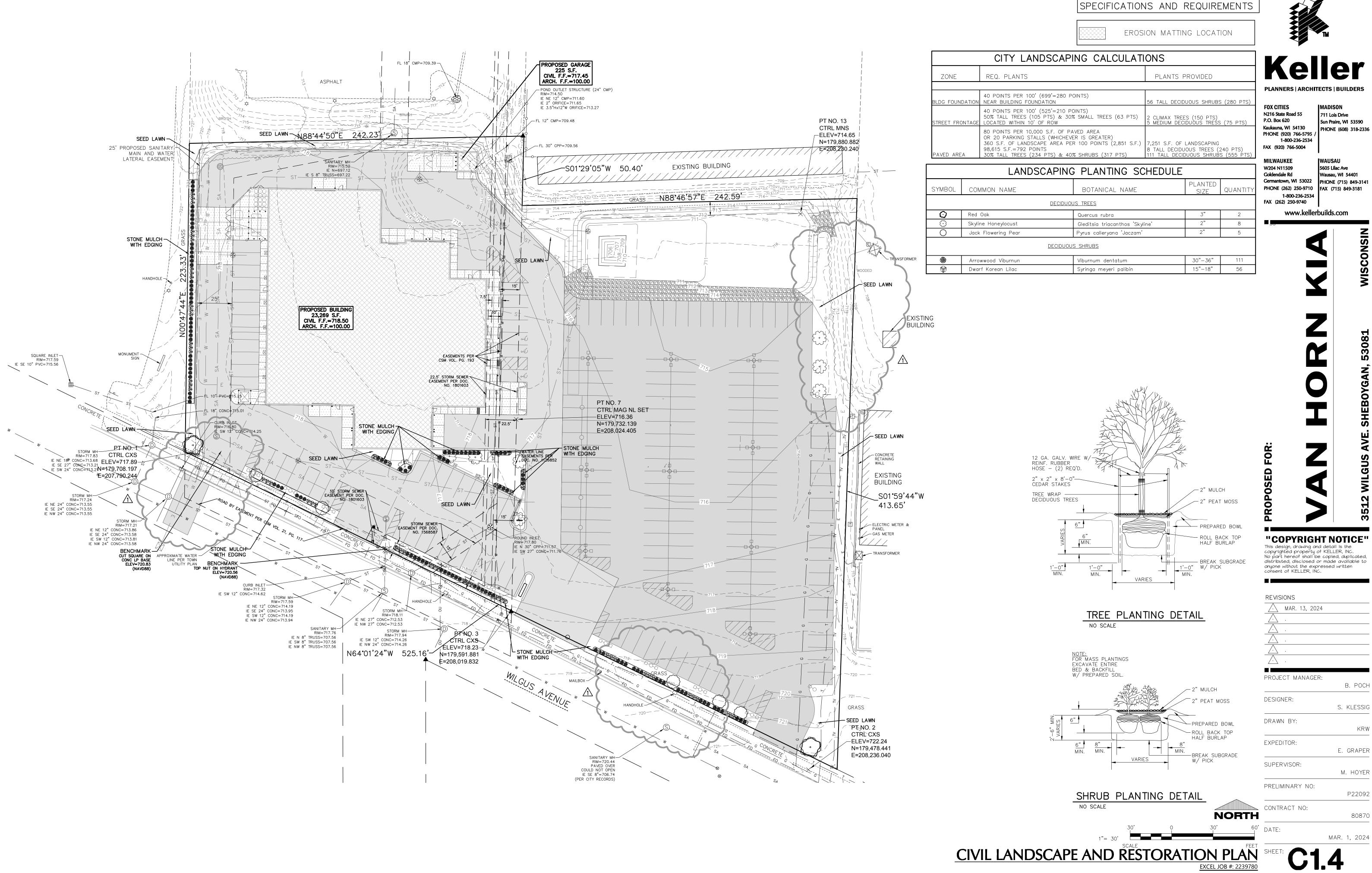
DATE:

DESIGNER:

MAR. 1, 2024

P22092

80870

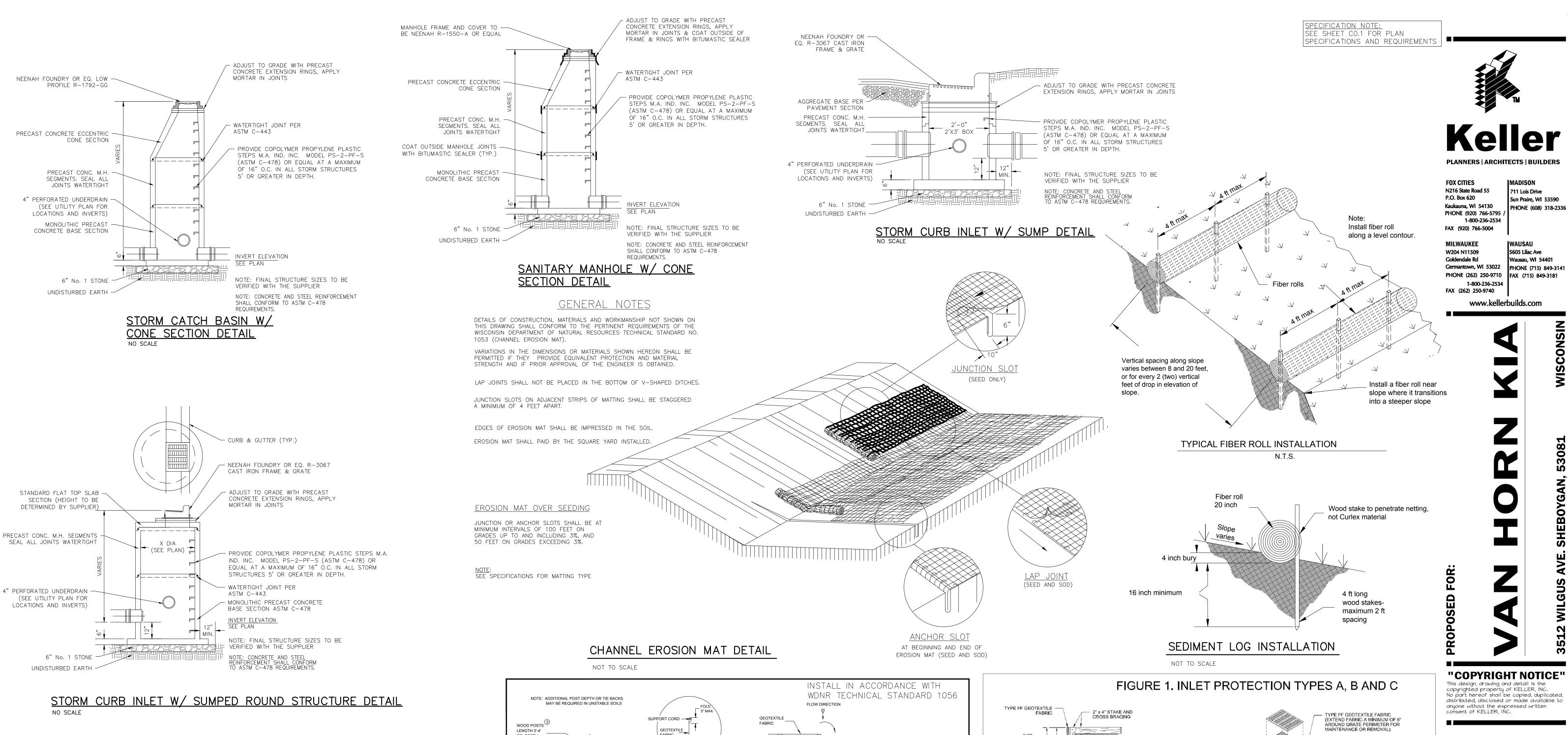


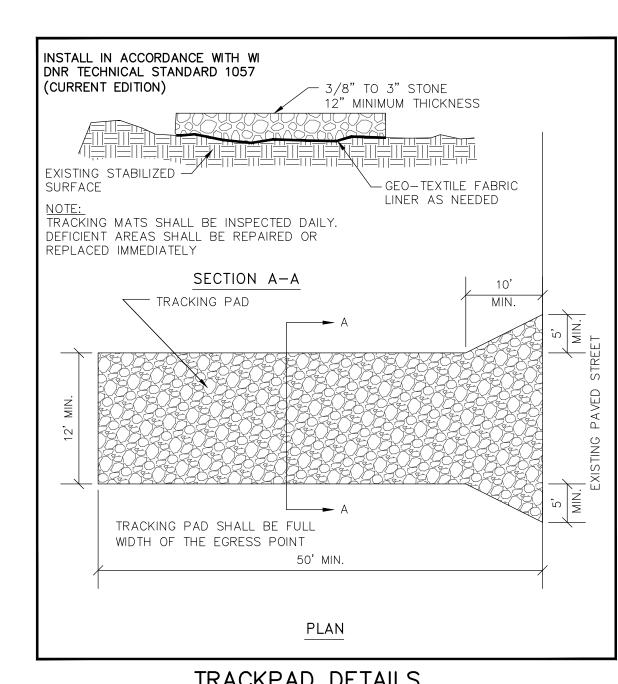
SPECIFICATION NOTE:

SEE SHEET CO.1 FOR PLAN

B. POCH S. KLESSIG KRW E. GRAPER

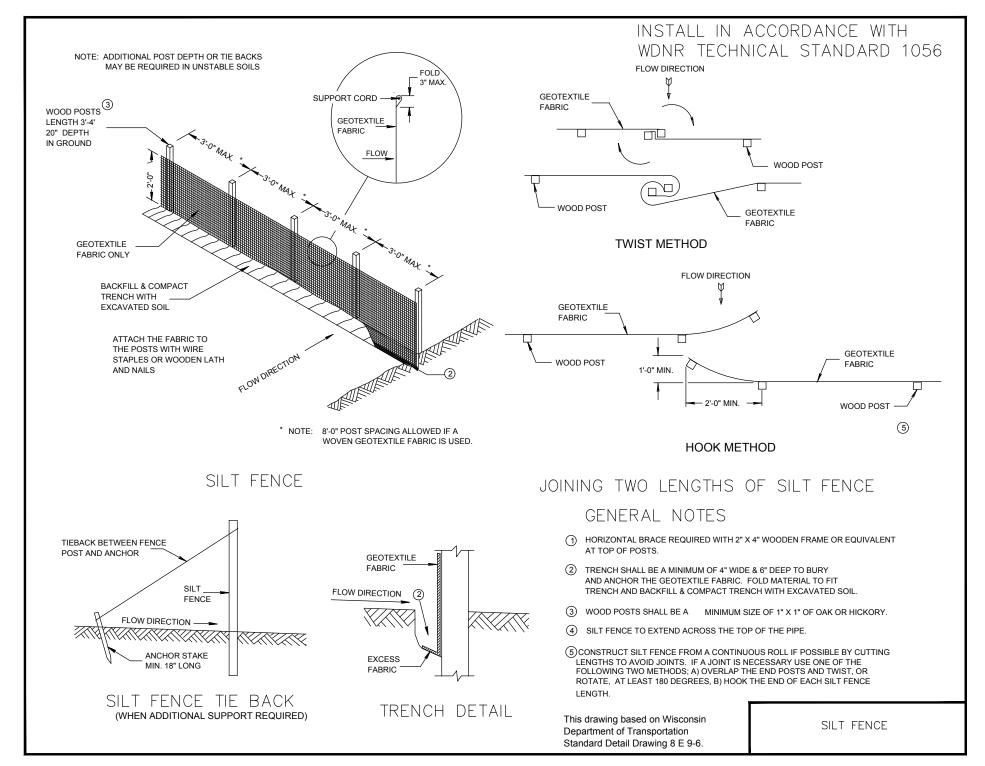
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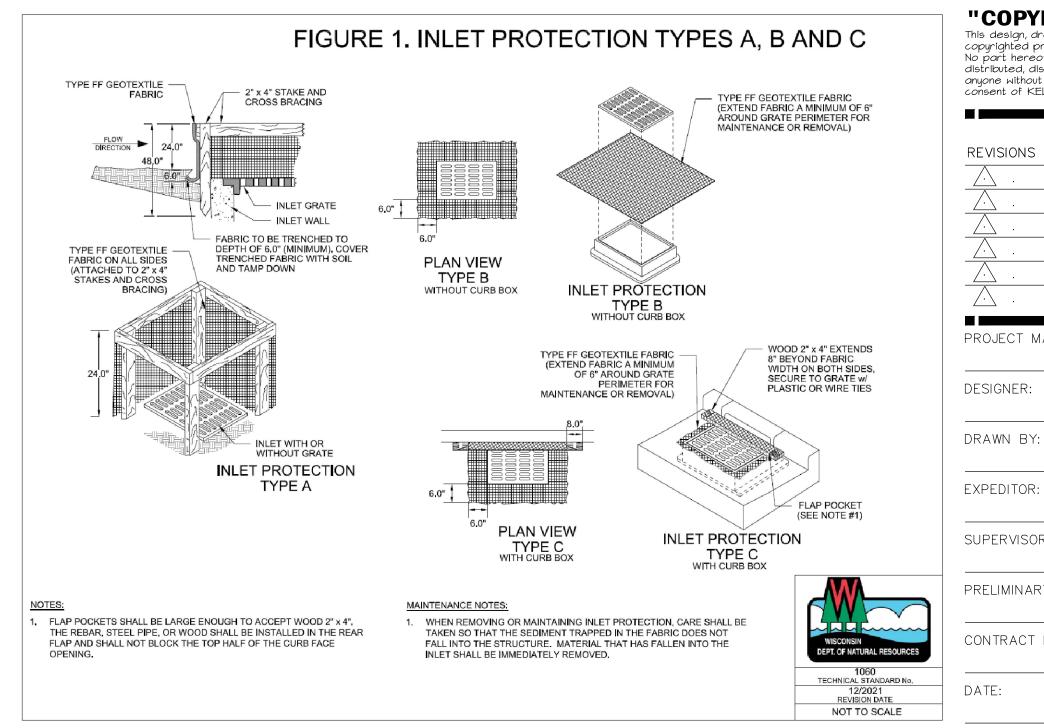




TRACKPAD DETAILS

NO SCALE





INLET PROTECTION DETAIL
NO SCALE

DETAILS EXCEL JOB #: 2239780

REVISIONS

PROJECT MANAGER:

DESIGNER:

EXPEDITOR:

SUPERVISOR:

PRELIMINARY NO:

CONTRACT NO:

B. POCH

KRW

S. KLESSIG

E. GRAPER

M. HOYER

P22092

80870

MAR. 1, 2024

711 Lois Drive

5605 Lilac Ave

Wausau, WI 54401

Sun Praire, WI 53590

PHONE (608) 318-2336

STOOP/SIDEWALK

г #4's T&B

ADA CURB RAMP SHALL CONFORM

TO THE CURRENT EDITION OF ADA

FOR ALL REQUIREMENTS.

- HDPE DETECTABLE WARNING SURFACE. SURFACE

TO BE TRUNCATED DOMES WITH A BASE DIAMETER

OF 0.9" MIN. TO 1.4" MAX. AND A TOP DIAMETER

HEIGHT OF 0.2". TRUNCATED DOMES SHALL HAVE

A CENTER-TO-CENTER SPACING OF 1.6" MIN. AND

2.4" MAX. AND A BASE-TO-BASE SPACING OF 0.65" MIN. MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID. DOMES SHALL BE

ALIGNED IN A SQUARE GRID PATTERN.

OF OF 50% MIN. TO 65% MAX. OF THE BASE DIAMETER. HEIGHT OF DOMES SHALL HAVE A

STANDARDS FOR ACCESSIBLE DESIGN

6'-0"

_ 5" CONC. RAMP R/F W/

12 MAX.

WARNING PLATE

1:12 MAX.

- 4" AGGREGATE BASE

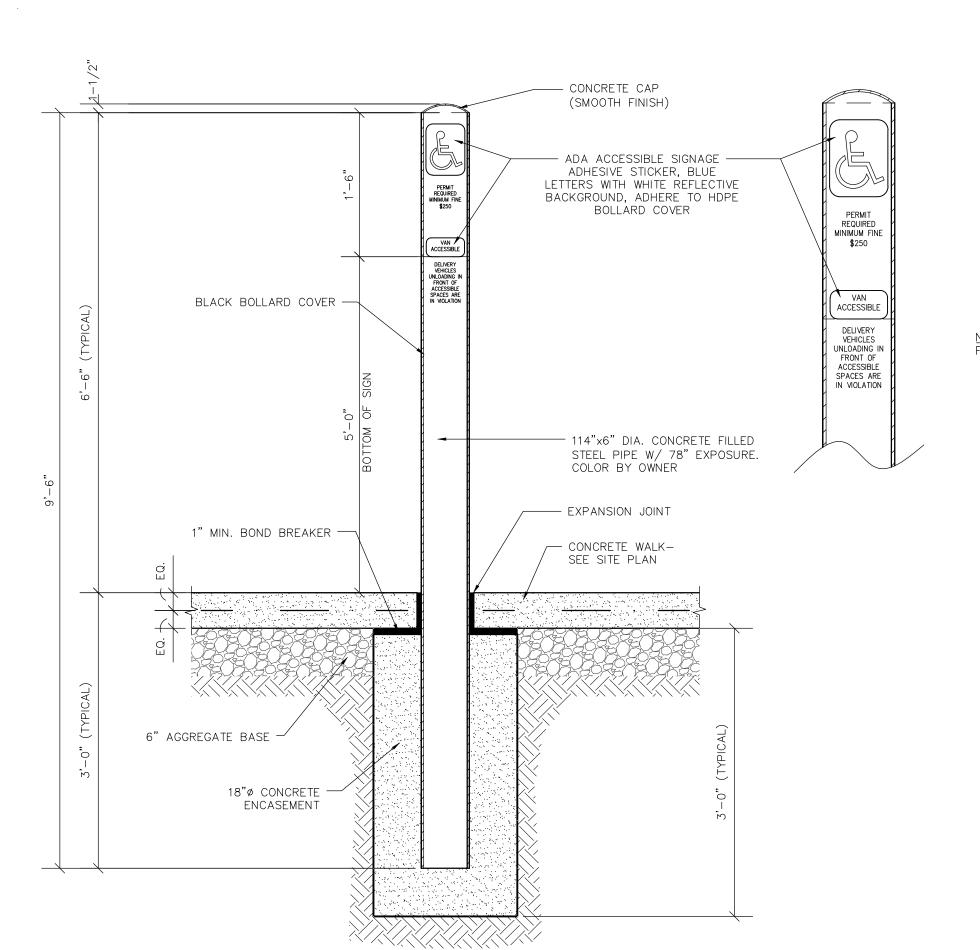
#4's T&B

CURB RAMP DETAIL

NO SCALE

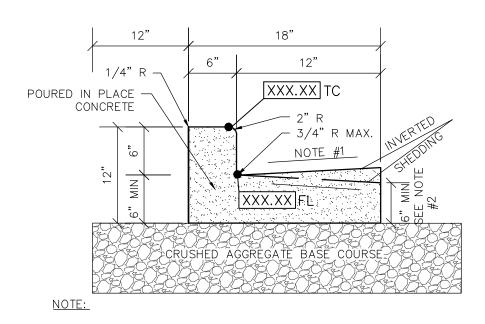
EMERGENCY SPILLWAY DETAIL
NO SCALE

PAVEMENT



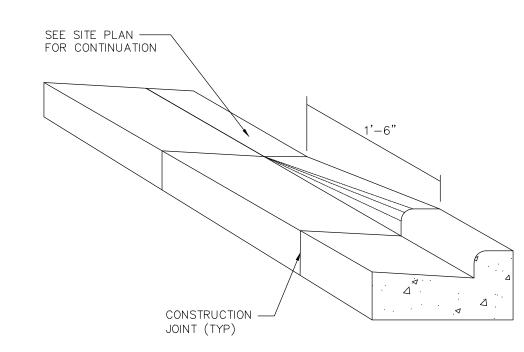
6" HANDICAP PIPE BOLLARD DETAIL NO SCALE

TYPE A

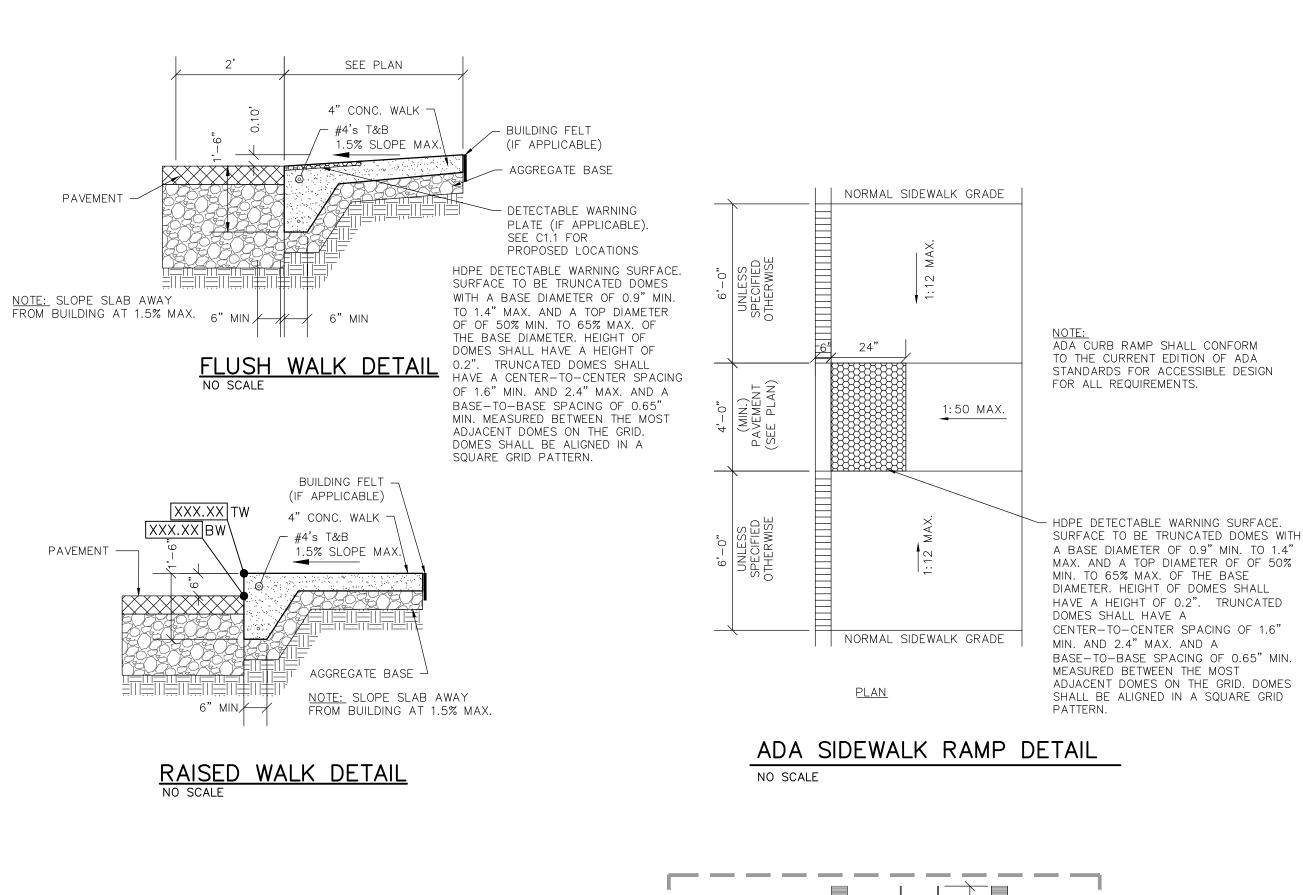


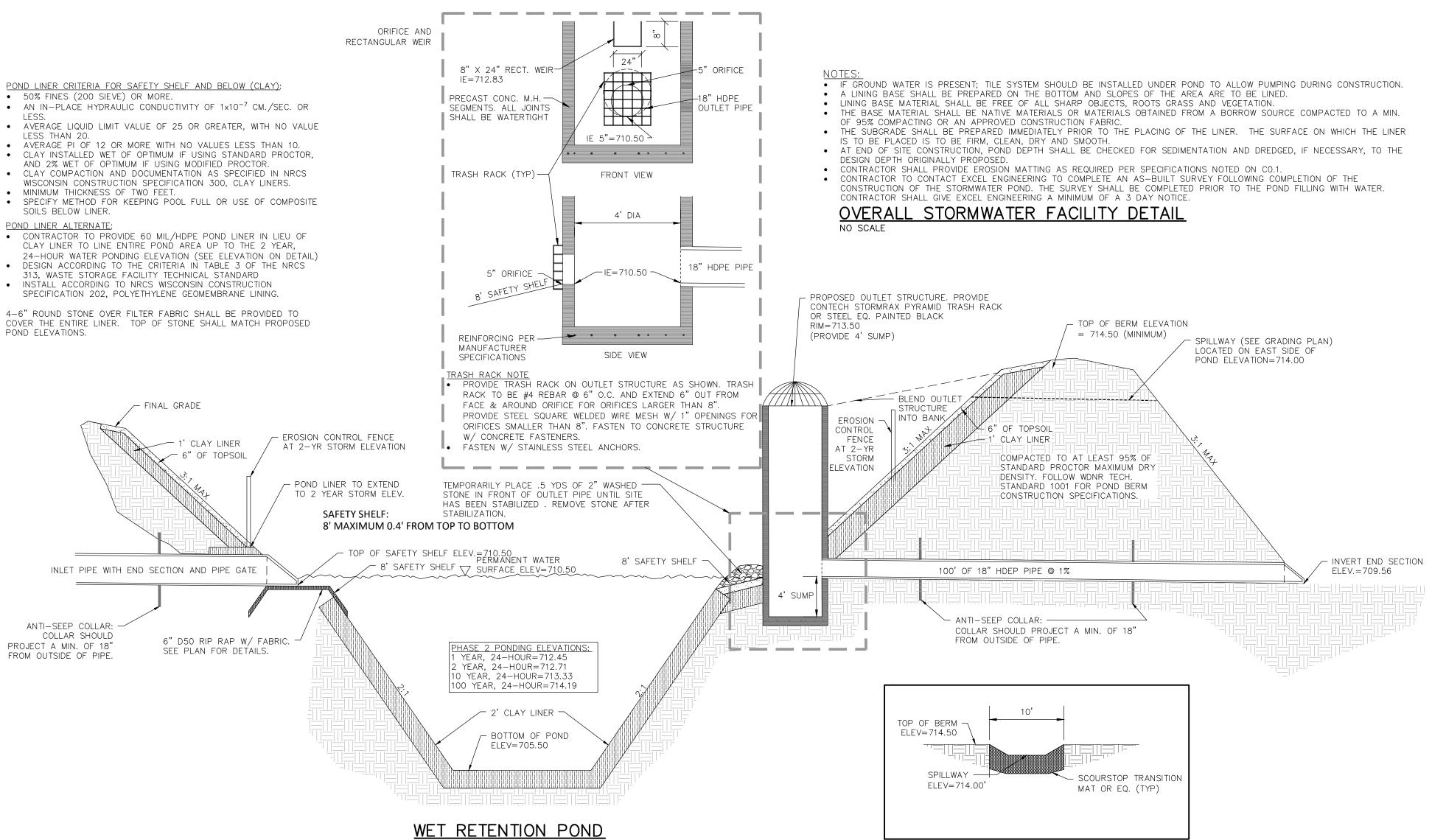
- 1. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS. 2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A
- 6" MIN. GUTTER THICKNESS IS MAINTAINED. 3. SEE SITE PLAN & GRADING PLAN FOR INVERTED & SHEDDING CURB LOCATIONS

18" CONCRETE CURB & GUTTER DETAIL



CURB TAPER DETAIL





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PROJECT MANAGER:

OR:

REVISIONS

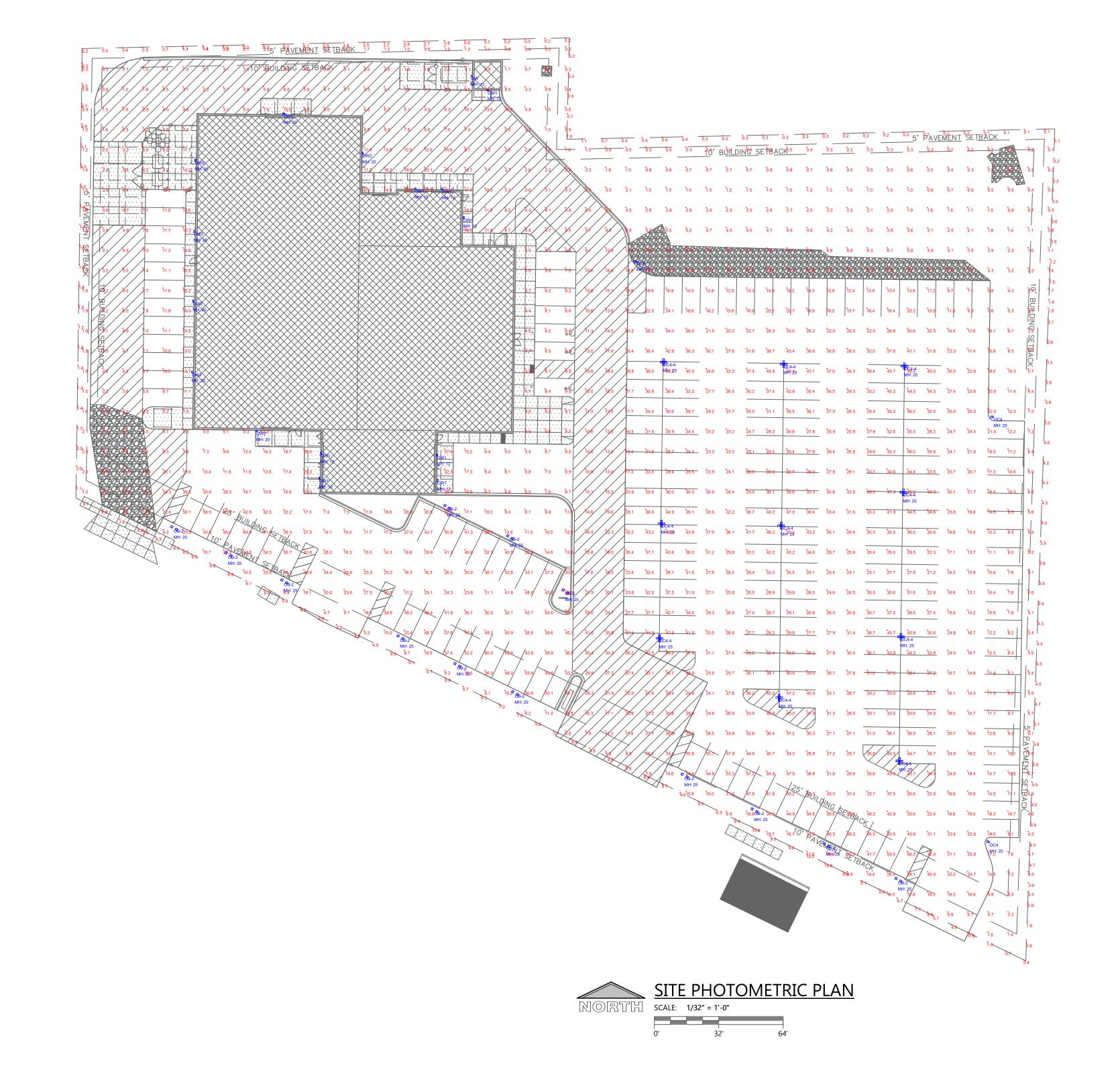
DESIGNER: S. KLESSIG DRAWN BY: KRW EXPEDITOR: E. GRAPER SUPERVISOR: M. HOYER PRELIMINARY NO: P22092 CONTRACT NO: 80870

B. POCH

DATE: MAR. 1, 2024

DETAILSEXCEL JOB #: 2239780

Luminaire Schedule						Calculation Summary								
Qty	Arrangement	LLF	Tag	Description	Lum. Watts	Total Watts	Lum. Lumens	Label	CalcType	Units	Avg	Max	Min	1
13	GROUP	0.950	LITHONIA	(1) RSX3 LED P3 xxK AFRR90 HS + (1) RSX3 LED P3 xxK AFRL90 HS @ 180 + 22FT POLE + 3FT BASE	N.A.	6937.294	N.A.	PRESUMED PROPERTY LINE	Illuminance	Fc	3.07	10.6	0.1	3
3	SINGLE	0.950	LITHONIA	RSX3 LED P4 xxK R4 + 22FT POLE + 3FT BASE	311.92	935.76	40976	CUSTOMER PARKING	Illuminance	Fc	7.53	9.8	5.8	1
10	4 @ 90 DEGREES	0.950	LITHONIA	(4) RSX3 LED P4 xxK R4 @ 90 + 22FT POLE + 3FT BASE	311.92	12476.8	40976	EMPLOYEE SERVICE PARKING	Illuminance	Fc	12.46	16.3	8.7	1
1	SINGLE	0.950	LITHONIA	WDGE1 LED P1 xxK 80CRI VF	10.0002	10.0002	1227	FRONT INTERIOR LOT	Illuminance	Fc	32.73	50.2	20.9	1
8	SINGLE	0.950	LITHONIA	WDGE4 LED P1 70CRI RFT xxK	76.21	609.68	12050	FRONT PERIMETER ROW	Illuminance	Fc	51.45	64.0	36.3	1
6	SINGLE	0.950	LITHONIA	WDGE4 LED P4 70CRI RFT xxK	146.89	881.34	20446	FRONT PERIMETER ROW_1	Illuminance	Fc	46.54	60.0	30.6	1
1	SINGLE	0.950	LITHONIA	WDGE4 LED P4 70CRI R3 xxK	146.89	146.89	20163	FRONT PERIMETER ROW_2	Illuminance	Fc	52.35	61.8	38.1	1
								PEDESTRIAN PATH	Illuminance	Fc	10.34	27.9	4.4	2
_	Qty 13	Oty Arrangement 13 GROUP 3 SINGLE 10 4 @ 90 DEGREES 1 SINGLE 8 SINGLE 6 SINGLE	Oty Arrangement LLF 13 GROUP 0.950 3 SINGLE 0.950 10 4 @ 90 DEGREES 0.950 1 SINGLE 0.950 8 SINGLE 0.950 6 SINGLE 0.950	Oty Arrangement LLF Tag 13 GROUP 0.950 LITHONIA 3 SINGLE 0.950 LITHONIA 10 4 @ 90 DEGREES 0.950 LITHONIA 1 SINGLE 0.950 LITHONIA 8 SINGLE 0.950 LITHONIA 6 SINGLE 0.950 LITHONIA	Qty Arrangement LLF Tag Description 13 GROUP 0.950 LITHONIA (1) RSX3 LED P3 xxK AFRR90 HS + (1) RSX3 LED P3 xxK AFRL90 HS @ 180 + 22FT POLE + 3FT BASE 3 SINGLE 0.950 LITHONIA RSX3 LED P4 xxK R4 + 22FT POLE + 3FT BASE 10 4 @ 90 DEGREES 0.950 LITHONIA (4) RSX3 LED P4 xxK R4 @ 90 + 22FT POLE + 3FT BASE 1 SINGLE 0.950 LITHONIA WDGE1 LED P1 xxK 80CRI VF 8 SINGLE 0.950 LITHONIA WDGE4 LED P1 70CRI RFT xxK 6 SINGLE 0.950 LITHONIA WDGE4 LED P4 70CRI RFT xxK	Qty Arrangement LLF Tag Description Lum. Watts 13 GROUP 0.950 LITHONIA (1) RSX3 LED P3 xxk AFRR90 HS + (1) RSX3 LED P3 xxk AFRL90 HS @ 180 + 22FT POLE + 3FT BASE N.A. 3 SINGLE 0.950 LITHONIA RSX3 LED P4 xxk R4 + 22FT POLE + 3FT BASE 311.92 10 4 @ 90 DEGREES 0.950 LITHONIA (4) RSX3 LED P4 xxk R4 @ 90 + 22FT POLE + 3FT BASE 311.92 1 SINGLE 0.950 LITHONIA WDGE1 LED P1 xxk 80CRI VF 10.0002 8 SINGLE 0.950 LITHONIA WDGE4 LED P1 70CRI RFT xxk 76.21 6 SINGLE 0.950 LITHONIA WDGE4 LED P4 70CRI RFT xxk 146.89	Oty Arrangement LLF Tag Description Lum. Watts Total Watts 13 GROUP 0.950 LITHONIA (1) RSX3 LED P3 xxK AFRR90 HS + (1) RSX3 LED P3 xxK AFRL90 HS @ 180 + 22FT POLE + 3FT BASE N.A. 6937.294 3 SINGLE 0.950 LITHONIA RSX3 LED P4 xxK R4 + 22FT POLE + 3FT BASE 311.92 935.76 10 4 @ 90 DEGREES 0.950 LITHONIA (4) RSX3 LED P4 xxK R4 @ 90 + 22FT POLE + 3FT BASE 311.92 12476.8 1 SINGLE 0.950 LITHONIA WDGE1 LED P1 xxK 80CRI VF 10.0002 10.0002 8 SINGLE 0.950 LITHONIA WDGE4 LED P1 70CRI RFT xxK 76.21 609.68 6 SINGLE 0.950 LITHONIA WDGE4 LED P4 70CRI RFT xxK 146.89 881.34	Oty Arrangement LLF Tag Description Lum. Watts Total Watts Lum. Lumens 13 GROUP 0.950 LITHONIA (1) RSX3 LED P3 xxK AFRR90 HS + (1) RSX3 LED P3 xxK AFRL90 HS @ 180 + 22FT POLE + 3FT BASE N.A. 6937.294 N.A. 3 SINGLE 0.950 LITHONIA RSX3 LED P4 xxK R4 + 22FT POLE + 3FT BASE 311.92 935.76 40976 10 4 @ 90 DEGREES 0.950 LITHONIA (4) RSX3 LED P4 xxK R4 @ 90 + 22FT POLE + 3FT BASE 311.92 12476.8 40976 1 SINGLE 0.950 LITHONIA WDGE1 LED P1 xxK 80CRI VF 10.0002 10.0002 10.0002 1227 8 SINGLE 0.950 LITHONIA WDGE4 LED P1 70CRI RFT xxK 76.21 609.68 12050 6 SINGLE 0.950 LITHONIA WDGE4 LED P4 70CRI RFT xxK 4046 4046	Arangement LLF Tag Description Lum. Watts Total Watts Lum. Lumens	Arangement LLF Tag Description Lum. Watts Total Watts Lum. Lumens	Arangement LLF Tag Description Lum. Watts Total Watts Lum. Lumens	Arrangement LLF Tag Description Lum. Watts Total Watts Lum. Lumens 13 GROUP 0.950 LITHONIA (1) RSX3 LED P3 xxK AFR90 HS + (1) RSX3 LED P3 xxK AFR90 HS e 180 + 22FT POLE + 3FT BASE N.A. 6937.294 N.A. 3 SINGLE 0.950 LITHONIA RSX3 LED P4 xxK R4 + 22FT POLE + 3FT BASE SINGLE 1.0002 1.247 1.0002 1.227 4 9 0 DEGREES 0.950 LITHONIA WDGE1 LED P1 xxK 80CRI VF MDGE4 LED P1 70CRI RFT xxK M	Arrangement LLF Tag Description Lum. Watts Total Watts Lum. Lumens	Arrangement LLF Tag Description Lum Watts Total Watts Lum Lu





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PROJECT MANAGER: B. POCH DESIGNER: S. KLESSIG

KRW

E. GRAPER

M. HOYER

DRAWN BY:

EXPEDITOR: SUPERVISOR:

PRELIMINARY NO:

P22092 CONTRACT NO: NORTH

80870 MAR. 1, 2024

CIVIL SITE PHOTOMETRIC PLAN AND DETAILS

EXCEL JOB #: 2239780

ISSUED FOR CONSTRUCTION